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FROM

CATALYST RESEARCH CORPORATION

6101 FALLS ROAD

BALTIMORE, MARYLAND 21209

TO

7/3/96

R. T. Ruff 8 4

7-8-96

W. C. Layne mkt. DOE

SANDIA SYSTEMS, INC. DECLASSIFICATION REVIEW

DOWNGRADING AND DECLASSIFICATION STAMP

CLASSIFICATION CHANGED TO: AUTHORITY W. C. Layne

Emilia Leigh 7/8/96

NAME OF REVIEWER RECORD ID 96SN364

W. C. Layne 7/8/96

REVIEWER'S SIGNATURE DATE DATED 7/8/96

SANDIA SYSTEMS, INC. DECLASSIFICATION REVIEW

DOWNGRADING AND DECLASSIFICATION STAMP

CLASSIFICATION CHANGED TO: AUTHORITY W. C. Layne

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NAME OF REVIEWER RECORD ID

DATED 7/8/96

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UNCLASS
7/3/96

CATALYST RESEARCH CORP.
DOCUMENT No. 0-4226
9-20-68

UNCLASSIFIED

SC-CR-68-3755
Vol. 2

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VOLUME II OF II

TABLES 1 THROUGH 359

SANDIA SYSTEMATIC DECLASSIFICATION REVIEW DOWNGRADING OR DECLASSIFICATION STAMP	
CLASSIFICATION CHANGED TO: U Emelda Seph 7/16/96	AUTHORITY: W. Layne
PERSON CHANGING MARKING & DATE UNC Layne 7-18-96	RECORD ID: 965N364
PERSON VERIFYING MARKING & DATE	DATED: 7-8-96

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UNCLASSIFIED

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TABLE 1 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1A CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test 1	Test 2	Test 3	Test	Test	Test	Av.
Thickness, Mils	.051	.050	.050				.0504
Diameter, in.	1.3874	1.3876	1.3876				1.3875
Weight, gm.	2.3810	2.3820	2.3774				2.3801
Density - gms/cm^3	1.95	1.98	1.98				1.97
Growth, mils.	7.4	7.6	7.6				7.5

Date Pellets Vacuum Dried: 3/10/67

Peak Voltage	2.52	2.53	2.53				2.53
Time to 2.0 V. Sec.	960	1110	1380				1150
Alloy, Count	3.9 mg	6.1 mg	7.0 mg				5.9 mg
Deformation, Mils.	13.7	23.2	23.1				20.0
Wetting, %	95	95	95				95

	Noise			Voltage			
60 Seconds	2.44	2.20	2.52				2.48
120	2.39	2.30	2.48				2.44
180	2.36	2.31	2.43				2.40
240	2.32	2.30	2.40				2.36
300	2.30	2.29	2.35				2.32
360	2.28	2.28	2.29				2.28
420	2.25	2.26	2.25				2.25
480	2.23	2.35	2.23				2.23
540	2.21	2.23	2.21				2.20
600	2.18	2.22	2.20				2.18
660	2.16	2.20	2.18				2.16
720	2.15	2.18	2.17				2.15
780	2.12	2.17	2.15				2.14
840	2.09	2.15	2.14				2.14
900	2.05	2.15	2.13				2.14
960	2.00	2.14	2.12				2.13
1020		2.13	2.11				2.11
1080		1.45	2.10				2.10
1140			2.08				2.08
1200			2.07				2.07
1260			2.00				2.00
1320							
1380							
1440							
1500							

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TABLE 2 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1B CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.6	55.2	55.3				55.4
Diameter, in.	1.3870	1.3869	1.3867				1.3869
Weight, gm.	2.3731	2.3657	2.3671				2.3686
Density - gms/cm^3	1.78	1.79	1.79				1.79
Growth, mils.	7.0	6.9	6.7				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.52	2.52	2.52				2.52
Time to 2.0 V. Sec.	150"	150"	291"				197"
Alloy, Count	10	5	60				25
Deformation, Mils.	8	10	6				8
Wetting, %	70	70	65				70

	Voltage						
60 Seconds	Noise	Noise	247				
120	216	214	241				
180	Shorted	Shorted	234				
240			223				
300			Shorted				
360 O.C.	247	247	250				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 3 - PELLET CONSOLIDATION STUDY - 6 TON

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1B CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	73.5	73.5	72.8	73.0			72.3
Diameter, in.	1.3863	1.3860	1.3850	1.3852			1.3856
Weight, gm.	2.3640	2.3514	2.3516	2.3589			2.3565
Density - gms/cm^3	1.34	1.34	1.36	1.35			1.35
Growth, mils.	6.3	6.0	5.0	5.2			5.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.49	2.49	2.49	2.48			2.49
Time to 2.0 V. Sec.	180	447	47	541			304
Alloy, Count	45	44	48	48			46
Deformation, Mils.	2.7	2.0	2.2	2.8			2.4
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.38	2.42	Shorted	2.42			
120	2.10	2.33	2.01	2.37			
180	2.00	2.28		2.36			
240		2.23		2.32			
300		2.22		2.22			
360		2.22		2.17			
420		2.08		2.16			
480							
540 O.C.V.	2.55	2.45	2.15	2.45			
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 4 - PELLET CONSOLIDATION STUDY - 12 TON

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1B CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	63.1	63.4	63.0	62.4			63.0
Diameter, in.	1.3880	1.3871	1.3870	1.3880			1.3875
Weight, gm.	2.3682	2.3745	2.3732	2.3685			2.3711
Density - gms/cm^3	1.57	1.56	1.57	1.58			1.57
Growth, mils.	8.0	7.1	7.0	8.0			7.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.48	2.47	2.49	2.49			2.48
Time to 2.0 V. Sec.	25	125	276	272			175
Alloy, Count	16	10	15	10			13
Deformation, Mils.	0.0	0.8	0.0	-1.4			-0.2
Wetting, %	Bowed 50	Bowed 40	Bowed 60	Bowed 50			50

	Voltage						
60 Seconds	Shorted	2.37	2.47	2.46			
120		2.03	2.39	2.38			
180			2.37	2.34			
240			2.18	2.22			
300							
360							
420 O.C.V.	--	2.55	2.55	2.56			
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 5 - PELLET CONSOLIDATION STUDY - 18 TON

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1B CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	58.3	58.0	58.0	58.3	57.8		58.1
Diameter, in.	1.3865	1.3868	1.3864	1.3866	1.3860		1.3865
Weight, gm.	2.3775	2.3790	2.3661	2.3777	2.3627		2.3726
Density - gms/cm^3	1.70	1.71	1.70	1.70	1.71		1.70
Growth, mils.	6.5	6.8	6.4	6.6	6.0		6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.48	2.48	2.45	2.48	2.52		2.48
Time to 2.0 V. Sec.	130	153	108	185	186		152
Alloy, Count	Neg.	Neg.	Neg.	Neg.	9		Negligi
Deformation, Mils.	Pellet Cracked	-1.8	-3.4	-1.2	-0.1		-1.3
Wetting, %	Bowed 50	Bowed 50	Bowed 40	Bowed 50	Bowed 60		50

	Voltage						
60 Seconds	2.39	2.42	2.37	2.39	2.43		
120	2.10	2.32		2.38	2.38		
180				2.10	2.13		
240							
300							
360 O.C.V.	2.60	2.62	2.60	2.58	2.60		
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 6 - PELLET CONSOLIDATION STUDY - 24 TON

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1B CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.4	55.4	55.6	55.1	55.3		55.4
Diameter, in.	1.3870	1.3869	1.3866	1.3863	1.3864		1.3866
Weight, gm.	2.3691	2.3723	2.3762	2.3675	2.3680		2.3706
Density - gms/cm^3	1.78	1.79	1.79	1.79	1.79		1.79
Growth, mils.	7.0	6.9	6.6	6.3	6.4		6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.47	2.48	2.51	2.48	2.48		2.48
Time to 2.0 V. Sec.	200	142	179	159	170		170
Alloy, Count	Neg.	Neg.	Neg.	Neg.	Neg.		Neglibibl
Deformation, Mils.	-1.5	-6.9	-3.6	-3.8	-10.0		-5.6
Wetting, %	Bowed 50	Bowed 50	Bowed 50	Bowed 50	Bowed 40		50

	Voltage						
60 Seconds	2.43	2.43	2.47	2.43	2.41		
120	2.37		2.38	2.34	2.32		
180	2.18						
240							
300							
360 O.C.V.	2.55	2.58	2.58	2.56	2.57		
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 7 - PELLET CONSOLIDATION STUDY - 30 TON

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1B CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	53.2	53.0	52.8	53.7			53.2
Diameter, in.	1.3868	1.3868	1.3868	1.3868			1.3868
Weight, gm.	2.3700	2.3667	2.3740	2.3754			2.3715
Density - gms/cm^3	1.86	1.87	1.88	1.84			1.86
Growth, mils.	6.8	6.8	6.8	6.8			6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.48	2.51	2.48	2.48			2.49
Time to 2.0 V. Sec.	173	176	149	215			178
Alloy, Count	Neg.	Neg.	13	7			5
Deformation, Mils.	2.0	0.2	2.7	1.2			1.5
Wetting, %	Bowed 50	Bowed 50	Bowed 50	Bowed 50			50

	Voltage						
60 Seconds	2.44	2.47	2.44	2.47			
120	2.36	2.37	2.34	2.41			
180				2.28			
240							
300							
360 O.C.V.	2.60	2.60	2.60	2.58			
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 8 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1C CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.4	56.2	55.2	55.9			55.8
Diameter, in.	1.3873	1.3874	1.3872	1.3870			1.3872
Weight, gm.	2.3654	2.3820	2.3647	2.3722			2.3711
Density - gms/cm^3	1.78	1.77	1.79	1.78			1.78
Growth, mils.	7.3	7.4	7.2	7.0			7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.53	2.46	2.49	2.53			2.50
Time to 2.0 V. Sec.	301"	141"	209"	250"			225"
Alloy, Count	21	14	22	35			23
Deformation, Mils.	13	15	19	19			17
Wetting, %	80	75	?	75			75

	Voltage						
60 Seconds	228	228	247	248			
120	239	215	237	242			
180	233		215	234			
240	217			209			
300							
360							
420							
480 O.C.	255	255 OC	257	260			
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 9 - ACCEPTANCE TEST FUSION STUDY - Fusion T°C 434/20 hrs.

BIMETAL NO. 1 T°C. 500°C

DEB LOT NO. SA-1C CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	54.8	54.6	54.9				54.8
Diameter, in.	1.3864	1.3866	1.3864				1.3865
Weight, gm.	2.3554	2.3665	2.3650				2.3630
Density - gms/cm^3	1.80	1.80	1.80				1.80
Growth, mils.	6.4	6.6	6.4				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.48	2.47	2.49				2.48
Time to 2.0 V. Sec.	130	140	128				133
Alloy, Count	2	4	6				4
Deformation, Mils.	-4.4	-5.2	-3.3				-4.4
Wetting, %	Bowed 40	Bowed 40	Bowed 40				40

	Voltage						
60 Seconds	2.39	2.41	2.43				
120	2.13	2.14	2.18				
180							
240							
300							
360 O.C.V.	2.53	2.55	2.55				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 10 - ACCEPTANCE TEST FUSION STUDY - Fusion T°C 450/20 hrs.

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1C CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	53.0	53.5	53.2				53.3
Diameter, in.	1.3864	1.3864	1.3863				1.3864
Weight, gm.	2.3676	2.3742	2.3756				2.3725
Density - gms/cm^3	1.87	1.85	1.86				1.86
Growth, mils.	6.4	6.4	6.3				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.52	2.48	2.52				2.51
Time to 2.0 V. Sec.	236*	209	221				222
Alloy, Count	100	110	95				102
Deformation, Mils.	-5.4	-6.4	-6.3				-6.0
Wetting, %	Bowed 80	Bowed 80	Bowed 80				80

	Voltage						
60 Seconds	2.50	2.44	2.52				
120	2.42	2.36	2.42				
180	2.28	2.24	2.23				
240	2.07*						
300							
360							
420 O.C.V.	2.53	2.53	2.53				
480							
540							
600							
660							
720							
780	* Momentary short						
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 11 - ACCEPTANCE TEST FUSION STUDY - Fusion T°C 490/20 hrs.

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1C CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	51.0	51.1	51.1	51.5			51.2
Diameter, in.	1.3858	1.3857	1.3856	1.3858			1.3857
Weight, gm.	2.3817	2.3882	2.3913	2.3858			2.3886
Density - gms/cm^3	1.95	1.95	1.96	1.94			1.95
Growth, mils.	5.8	5.7	5.6	5.8			5.7

Date Pellets Vacuum Dried: _____

Peak Voltage	256	258	258	258			258
Time to 2.0 V. Sec.	399	376	373	359			377
Alloy, Count	58	67	88	76			72
Deformation, Mils.	15.4	16.5	16.5	15.9			16.1
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.48	2.53	2.54	2.54			2.52
120	2.39	2.41	2.48	2.48			2.44
180	2.35	2.20	2.44	2.43			2.36
240	2.32	*short	2.39	2.38			2.32
300	2.22	2.13	2.37	2.36			2.27
360	2.06	2.03	2.28				2.12
420							
480	shorting up to 40 sec.	momentary short *					
540							
600							
660							
720							
780							
840							
900 O.C.	2.48	2.38	2.45	2.50			
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 12 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1D CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	54.0	54.5	54.0				54.2
Diameter, in.	1.3878	1.3880	1.3880				1.3879
Weight, gm.	2.3771	2.3893	2.3742				2.3591
Density - gms/cm^3	1.84	1.82	1.83				1.83
Growth, mils.	7.8	8.0	8.0				7.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.55	2.52	2.52				2.53
Time to 2.0 V. Sec.	72"	470"	110"				217.3"
Alloy, Count	Alloy in Center	12	Alloy in Center 14				13
Deformation, Mils.	17.2	19.7	20.3				19.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.53	2.51	2.45				
120	2.48	2.47	1.50				
180	2.26	2.41					
240		2.37					
300		2.32					
360		2.27					
420		2.16					
480							
540 O.C.V.	1.98	2.55	2.55				
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 13 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1E CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.1	54.8	54.9				54.9
Diameter, in.	1.3873	1.3877	1.3876				1.3876
Weight, gm.	2.3792	2.3775	2.3811				2.3797
Density - gms/cm^3	1.80	1.81	1.81				1.81
Growth, mils.	7.3	7.7	7.6				7.6

Date Pellets Vacuum Dried: _____

Peak Voltage	Shorted 2.43	2.47	2.47				2.46
Time to 2.0 V. Sec.	175	214	285				225
Alloy, Count	8	26	15				16
Deformation, Mils.	-3.3	-5.4	-4.0				-4.2
Wetting, %	Bowed 40	Bowed 40	Bowed 40				40

	Voltage						
60 Seconds	2.39	2.47	2.47				
120	2.24	2.34	2.41				
180		2.18	2.26				
240			2.16				
300							
360 O.C.V.	2.57	2.55	2.53				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 14 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1F CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.5	56.2	55.0	55.9	55.2		55.6
Diameter, in.	1.3865	1.3869	1.3864	1.3870	1.3870		1.3868
Weight, gm.	2.3785	2.3850	2.3795	2.3892	2.3874		2.3839
Density - gms/cm^3	1.79	1.77	1.81	1.78	1.80		1.79
Growth, mils.	6.5	6.9	6.4	7.0	7.0		6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.54	2.54	2.53	2.53	2.53		2.53
Time to 2.0 V. Sec.	250	220	60	235	234		235
Alloy, Count	20	11	5	6	4		9
Deformation, Mils.	-1.5	-1.0	1.2	-1.0	0.0		-0.5
Wetting, %	Bowed 80	Bowed 80	Bowed 80	Bowed 80	Bowed 80		Bowed 80

	Voltage						
60 Seconds	2.52	2.51	0.0	2.49	2.47		2.50
120	2.39	2.39	2.11	2.41	2.37		2.39
180	2.36	2.31	1.34	2.32	2.27		2.32
240	2.08	1.62	.93	1.98	1.88		1.89
300							
360 O.C.	2.55	2.55	2.55	2.50	2.55		2.54
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

Shorted - 60 -- 110 sec.

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TABLE 15 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1G CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3857	1.3876	1.3864	1.3861	1.3867		
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.7	7.6	6.4	6.1	6.7		

Date Pellets Vacuum Dried: _____

Peak Voltage	2.52	2.52	2.55	2.49	2.53		2.52
Time to 2.0 V. Sec.	252	312	354	246	324		298
Alloy, Count	6	3	8	4	5		5
Deformation, Mils.	1.5	2.7	.8	3.9	1.7		2.1
Wetting, %	95	95	95	95	95		95

	Voltage						
60 Seconds	2.49	2.48	2.51	2.49	2.51		2.50
120	2.42	2.39	2.43	2.40	2.43		2.41
180	2.33	2.33	2.38	2.28	2.36		2.34
240	2.14	2.24	2.29	2.11	2.27		2.21
300		2.09	2.18		2.13		
360			2.03				
420							
480							
540 O.C.V.	2.55	2.60	2.55	2.55	2.55		
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 16 - ACCEPTANCE TESTS

BIMETAL NO. 2 T°C 500°C

DEB LOT NO. SA-1G CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.8	55.8	55.2	56.0	55.2		55.6
Diameter, in.	1.3865	1.3865	1.3864	1.3867	1.3862		1.3865
Weight, gm.	2.4040	2.4015	2.3957	2.4125	2.3920		2.4029
Density - gms/cm^3	1.80	1.80	1.81	1.80	1.81		1.80
Growth, mils.	6.5	6.5	6.4	6.7	6.2		6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.53	2.53	2.53	2.56	2.54		2.54
Time to 2.0 V. Sec.	355	417	374	257	319		346
Alloy, Count	7	8	3	10	6		7
Deformation, Mils.	1.0	0.0	2.1	1.0	2.3		1.3
Wetting, %	95	95	95	95	95		95

	Voltage						
60 Seconds	2.52	2.52	2.52		2.53		
120	2.42	2.45	2.43	2.22	2.43		
180	2.37	2.38	2.38	2.13	2.37		
240	2.29	2.33	2.31	2.09	2.29		
300	2.20	2.25	2.22		2.09		
360	1.97	2.18	2.08				
420		2.02					
480							
540							
600 O.C.V.	2.50	2.50	2.50	2.30	2.50		
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

Shorted - 59-119 sec.
149-175 sec.
192-220 sec.

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TABLE 17 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1H CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.8	56.2	56.1	56.1	56.3		56.1
Diameter, in.	1.3868	1.3865	1.3863	1.3863	1.3867		1.3865
Weight, gm.	2.3778	2.3742	2.3712	2.3786	2.3713		2.3746
Density - gms/cm^3	1.78	1.76	1.77	1.77	1.76		1.77
Growth, mils.	6.8	6.5	6.3	6.3	6.7		6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.51	2.53	2.51	2.53	2.53		2.52
Time to 2.0 V. Sec.	251	265	213	284	257		254
Alloy, Count	27	16	10	18	3		15
Deformation, Mils.	-2.9	-2.5	-2.8	-3.5	-.16		-2.7
Wetting, %	90	90	90	90	90		90

	Voltage						
60 Seconds	2.51	2.51	2.51	2.51	2.50		2.51
120	2.43	2.43	2.40	2.43	2.43		2.42
180	2.39	2.38	2.29	2.38	2.34		2.36
240	2.19	2.19	1.65	2.25	2.18		2.09
300							
360							
420							
480							
540 O.C.V.	2.60	2.60	2.60	2.60	2.60		
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 18 - ACCEPTANCE TESTS

BIMETAL NO. 2 T°C 500°C

DEB LOT NO. SA-1H CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3867	1.3850	1.3861	1.3867		1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	6.7	5.0	6.1	6.7		6.1

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.53	2.51	2.51	2.51	2.53		2.52
Time to 2.0 V. Sec.	369	348	390	292	331		346
Alloy, Count	47	16	23	21	11		24
Deformation, Mils.	0.0	-5.0	-1.1	-2.1	-4.2		-2.5
Wetting, %	90	90	90	90	90		90

	Voltage						
60 Seconds	2.49	2.46	2.48	2.46	2.49		2.48
120	2.43	2.39	2.41	2.37	2.43		2.41
180	2.37	2.33	2.36	2.36	2.36		2.36
240	2.31	2.29	2.30	2.27	2.29		2.29
300	2.20	2.23	2.23	2.03	2.17		2.17
360	2.06		2.08				
420							
480							
540 O.C.V.	2.55	2.55	2.55	2.55	2.55		
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 19 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C. 500°C

DEB LOT NO. SA-1J CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.8	55.3	55.4	55.4	55.5		55.5
Diameter, in.	1.3860	1.3860	1.3868	1.3860	1.3863		1.3862
Weight, gm.	2.3824	2.3779	2.3761	2.3802	2.3831		2.3799
Density - gms/cm^3	1.78	1.80	1.79	1.80	1.79		1.79
Growth, mils.	6.0	6.0	6.8	6.0	6.3		6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.50	2.49	2.49	2.49	2.51		2.50
Time to 2.0 V. Sec.	213	182	193	173	153		183
Alloy, Count	8	5	13	13	6		9
Deformation, Mils.	-0.9	-4.7	-3.1	-5.7	-4.6		-3.8
Wetting, %	90	90	90	90	90		90

	Voltage						
60 Seconds	2.46	2.44	2.44	2.42	2.42		2.44
120	2.38	2.37	2.37	2.33	2.28		2.35
180	2.30	2.16	2.23	1.86	1.48		2.01
240	1.48	1.18	1.26	1.11	.85		1.18
300							
360							
420 O.C.V.	2.60	2.60	2.60	2.60	2.60		
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 20 - ACCEPTANCE TESTS

BIMETAL NO. 2 T°C 500°C

DEB LOT NO. SA-1J CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3867	1.3869	1.3859	1.3866	1.3867	1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	6.7	6.9	5.9	6.6	6.7	6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.51	2.51	2.51	2.51	2.51	2.51	2.51
Time to 2.0 V. Sec.	367	246	294	343	302	323	313
Alloy, Count	10	0	2	0	6	18	4
Deformation, Mils.	-1.3	-0.7	-.20	-4.2	-3.2	-3.0	-2.4
Wetting, %	90	90	90	90	90	90	90

	Voltage						
60 Seconds	2.45	2.36	2.46	2.47	2.44	2.48	2.44
120	2.39	2.30	2.39	2.42	2.38	2.43	2.39
180	2.34	2.23	2.34	2.36	2.33	2.38	2.33
240	2.30	2.03	2.23	2.30	2.26	2.34	2.24
300	2.24			2.17	2.06	2.23	2.12
360	2.08						
420							
480							
540 O.C.V.	2.60	2.55	2.60	2.60	2.60	2.60	
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

Shorted at 52 sec.

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TABLE 21 - ACCEPTANCE TESTS - 24 TON CONSOLIDATION PRESSURE

BIMETAL NO. 2 T°C 500

DEB LOT NO. SA-1K CURRENT DENSITY 342 ma./sq. in. (5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	54.1	55.1	53.2	53.8	54.2		54.1
Diameter, in.	1.3960	1.3962	1.3958	1.3960	1.3960		1.3960
Weight, gm.	2.3736	2.3752	2.3238	2.3205	2.3263		2.3439
Density - gms/cm^3	1.82	1.79	1.80	1.79	1.78		1.80
Growth, mils.	11.0	11.2	10.8	11.0	11.0		11.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.43	2.45	2.44	2.43	2.44		2.44
Time to 2.0 V. Sec.	178	189	174	164	186		178
Alloy, Count	8	18	6	4	9		9
Deformation, Mils.	-2.7	-4.7	-4.6	-6.3	-5.1		-4.7
Wetting, %	BOWED PELLETS 60	60	60	60	60		60

	Voltage						
60 Seconds	2.38	2.40	2.40	2.38	2.39		
120	2.31	2.29	2.28	2.27	2.30		
180	1.96	2.04	1.72	1.50	2.07		
240	1.03	1.88	.99	.90	1.35		
300							
360							
420							
480 O.C.V.	2.60	2.60	2.60	2.60	2.60		
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 22 - ACCEPTANCE TESTS - 50 TONS PELLET CONSOLIDATION PRESSURE

BIMETAL NO. 2 T°C 500

DEB LOT NO. SA-1K CURRENT DENSITY 342 ma./sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	49.2	48.8	49.0	48.8	48.8		48.9
Diameter, in.	1.3980	1.3977	1.3980	1.3980	1.3980		1.3979
Weight, gm.	2.3865	2.3530	2.3937	2.3867	2.3861		2.3812
Density - gms/cm^3	1.99	1.98	2.01	2.01	2.01		2.00
Growth, mils.	13	12.7	13.0	13.0	13.0		12.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.48	2.53	2.48	2.48	2.52		2.50
Time to 2.0 V. Sec.	562	408	430	496	478		495
Alloy, Count	12	10	18	14	16		14
Deformation, Mils.	0.0	2.6	-0.2	3.1	-1.7		0.8
Wetting, %	BOWED PELLETS 70	70	70	70	70		70

	Voltage						
60 Seconds	2.43	2.51	2.45	2.47	2.50		
120	2.38	2.42	2.41	2.42	2.42		
180	2.36	2.36	2.35	2.38	2.39		
240	2.33	2.29	2.30	2.35	2.37		
300	2.32	2.21	2.22	2.32	2.36		
360	2.34	2.12	2.16	2.28	2.33		
420	2.23		2.05	2.22	2.30		
480	2.18			2.08	2.23		
540							
600							
660 O.C.V.	2.50	2.50	2.50	2.50	2.50		
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 23 - ACCEPTANCE TESTS - 18 TON CONSOLIDATION PRESSURE

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1S CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	57.2	57.5	57.4				57.4
Diameter, in.	1.3870	1.3871	1.3878				1.3873
Weight, gm.	2.3825	2.3843	2.3809				2.3826
Density - gms/cm^3	1.74	1.74	1.73				1.74
Growth, mils.	7.0	7.1	7.8				7.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.49	2.54	2.58				2.55
Time to 2.0 V. Sec.	200	284	330				271.3
Alloy, Count	20	30	62				37
Deformation, Mils.	1	1	3				1.7
Wetting, %	60	70	80				70

	Voltage						
60 Seconds	2.48	2.51	2.53				
120	2.34	2.43	2.44				
180	2.24	2.38	2.38				
240		2.31	2.36				
300			2.18				
360							
420 O.C.V.	2.55	2.60	2.62				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 24 - ACCEPTANCE TESTS - 24 TON CONSOLIDATION PRESSURE

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-1S CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	53.8	53.8	54.0				53.9
Diameter, in.	1.3868	1.3878	1.3875				1.3874
Weight, gm.	2.3908	2.3921	2.3877				2.3902
Density - gms/cm^3	1.85	1.85	1.84				1.85
Growth, mils.	6.8	7.8	7.5				7.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.54	2.53	2.56				2.54
Time to 2.0 V. Sec.	304	229	298				277
Alloy, Count	47	35	33				38
Deformation, Mils.	1	Broken Pellet	1.1				1.0
Wetting, %	70	70	70				70

	Voltage						
60 Seconds	2.53	2.51	2.53				
120	2.47	2.43	2.47				
180	2.38	2.28	2.39				
240	2.08		2.28				
300							
360							
420 O.C.V.	2.62	2.62	2.60				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 25 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C. 500°C

DEB LOT NO. SA-2A CURRENT DENSITY 5 ohms load

ACETATE COAT None

LBS. OF FORCE ON CELL 3 lbs. force

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	53.8	53.5	53.9	53.9			53.8
Diameter, in.	1.3869	1.3875	1.3876	1.3876			1.3874
Weight, gm.	2.3794	2.3805	2.3813	2.3869			2.3820
Density - gms/cm^3	1.85	1.86	1.84	1.85			1.85
Growth, mils.	6.9	7.5	7.6	7.6			7.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.38	2.37	2.40	2.41			2.39
Time to 2.0 V. Sec.	540	523	347	614			506
Alloy, Count	3.0mg.	2.5mg.	1.8mg.	2.7mg.			2.5mg.
Deformation, Mils.	1.8	0.4	2.3	6.4			2.7
Wetting, %	95	95	95	95			95

	Voltage						
60 Seconds	2.36	2.35	2.40	2.40			2.38
120	2.31	2.30	2.37	2.37			2.34
180	2.27	2.27	2.27	2.29			2.28
240	2.22	2.24	2.20	2.25			2.23
300	2.19	2.22	2.17	2.20			2.20
360	2.15	2.18	1.95	2.18			2.12
420	2.10	2.12		2.14			2.09
480	2.04	2.07		2.09			2.05
540	2.00	1.95		2.04			
600				2.01			
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 26 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-2B CURRENT DENSITY 5 ohms load

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs. force

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	.050	.050	.050				.050
Diameter, in.	1.3860	1.3860	1.3861				1.3860
Weight, gm.	2.3984	2.4011	2.3958				2.3984
Density - gms/cm^3	2.00	2.00	2.00				2.00
Growth, mils.	6	6	6.1				6.0

Date Pellets Vacuum Dried: 3-10-67

Peak Voltage	2.50	2.48	2.51				2.50
Time to 2.0 V. Sec.	945	1170	1040				1072
Alloy, Count	23.1mg	29.3mg	24.4mg				25.6mg
Deformation, Mils.	16.6	21.5	13.9				17.3
Wetting, %							

	Voltage						
60 Seconds	2.45	2.45	2.49				2.46
120	2.40	2.40	2.42				2.40
180	2.37	2.33	2.39				2.36
240	2.35	2.30	2.35				2.33
300	2.33	2.24	2.30				2.29
360	2.30	2.20	2.27				2.26
420	2.27	2.17	2.25				2.23
480	2.24	2.14	2.22				2.20
540	2.23	2.12	2.20				2.18
600	2.21	2.11	2.19				2.17
660	2.18	2.10	2.17				2.15
720	2.17	2.09	2.16				2.14
780	2.14	2.08	2.15				2.13
840	2.09	2.07	2.12				2.10
900	2.04	2.07	2.10				2.07
960	1.88	2.06	2.07				2.06
1020		2.05	2.03				2.04
1080		2.03	1.93				2.03
1140		2.01					2.01
1200		1.98					1.98
1260							
1320							
1380							
1440							
1500							

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TABLE 27 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-2C CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	52.0	52.0	53.0				52.3
Diameter, in.	1.3852	1.3860	1.3855				1.3856
Weight, gm.	2.3184	2.3266	2.3235				2.3228
Density - gms/cm^3	1.87	1.87	1.85				1.86
Growth, mils.	5.2	6.0	5.5				5.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.56	2.54	2.56				2.55
Time to 2.0 V. Sec.	1511	1384	1400				1432
Alloy, Count	20/neg.	17/neg.	18/neg.				18/neglig
Deformation, Mils.	4.2	3.8	3.9				4.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds		2.37	2.56				2.47
120	2.43	2.42	2.51				2.45
180	2.42	2.42	2.48				2.44
240	2.41	2.39	2.45				2.42
300	2.40	2.38	2.44				2.41
360	2.39	2.38	2.43				2.40
420	2.38	2.38	2.42				2.39
480	2.37	2.36	2.41				2.38
540	2.36	2.34	2.39				2.36
600	2.35	2.34	2.37				2.35
660	2.34	2.33	2.30				2.33
720	2.34	2.33	2.33				2.33
780	2.33	2.32	2.33				2.33
840	2.32	2.31	2.33				2.32
900	2.32	2.29	2.32				2.31
960	2.32	2.28	2.28				2.29
1020	2.31	2.28	2.26				2.28
1080	2.30	2.27	2.28				2.28
1140	2.29	2.25	2.28				2.27
1200	2.27	2.23	2.25				2.25
1260	2.26	2.18	2.22				2.22
1320	2.24	2.13	2.16				2.22
1380	2.19		2.04				2.12
1440	2.13						2.41
1500	2.03						
O.C.	2.39	2.43					

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TABLE 28 - ACCEPTANCE TESTS - 18 TON CONSOLIDATION PRESSURE

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-2S (Sandia Powder) CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.2	54.9	55.2				55.1
Diameter, in.	1.3860	1.3858	1.3859				1.3859
Weight, gm.	2.3780	2.3792	2.3783				2.3785
Density - gms/cm^3	1.80	1.81	1.80				1.80
Growth, mils.	6.0	5.8	5.9				5.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.58	2.58	2.57				2.58
Time to 2.0 V. Sec.	565	806	252				541
Alloy, Count	46	18	65				43
Deformation, Mils.	2	2	1				1.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.48	2.50	2.54				
120	2.39	2.49	2.48				
180	2.36	2.44	2.43				
240	2.34	2.41					
300	2.31	2.38					
360	2.28	2.34					
420	2.23	2.34					
480	2.17	2.33					
540	2.08	2.29					
600		2.19					
660		2.18					
720		2.13					
780		2.07					
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 29 - ACCEPTANCE TESTS - 24 TON CONSOLIDATION PRESSURE

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-2S CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	51.8	51.5	51.8	51.8			51.7
Diameter, in.	1.3870	1.3867	1.3870	1.3867			1.3869
Weight, gm.	2.3732	2.3728	2.3710	2.3621			2.3698
Density - gms/cm^3	1.91	1.92	1.91	1.90			1.91
Growth, mils.	7.0	6.7	7.0	6.7			6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.58	2.59	2.58	2.57			2.58
Time to 2.0 V. Sec.	761	720	722	847			762.5
Alloy, Count	58	62	60	59			60
Deformation, Mils.	1	2	1	2			2.0
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.57	2.58	2.57	2.45			
120	2.49	2.52	2.52	2.39			
180	2.45	2.44	2.47	2.37			
240	2.42	2.41	2.43	2.34			
300	2.37	2.38	2.41	2.34			
360	2.36	2.37	2.36	2.34			
420	2.34	2.34	2.32	2.32			
480	2.31	2.33	2.28	2.28			
540	2.27	2.32	2.23	2.28			
600	2.19	2.29	2.18	2.23			
660	2.17	2.26	2.09	2.18			
720	2.09	Shorted	2.02	2.13			
780		2.03		2.08			
840				2.02			
900							
960							
1020 O.C.V.	2.53	2.52	2.53	2.46			
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 30 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. 22A CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	.0539	.0536	.0535				.0536
Diameter, in.	1.3872	1.3978	1.3876				1.3876
Weight, gm.	2.3925	2.3855	2.3880				
Density - gms/cm^3	1.74	1.74	1.78				1.750
Growth, mils.	.0062	.0068	.0066				.0066

Date Pellets Vacuum Dried: _____

Peak Voltage	2.45	2.495	2.515				2.49
Time to 2.0 V. Sec.	1506	1388	1420				1438
Alloy, Count	13.5mg	.0038mg	.0090mg				.0078 mg
Deformation, Mils.	16.0	10.0	11.5				11.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.41	2.47	2.48				2.45
120	2.36	2.41	2.38				2.38
180	2.34	2.375	2.27				2.33
240	2.32	2.35	2.28				2.32
300	2.285	2.33	2.375				2.30
360	2.255	2.305	2.26				2.27
420	2.245	2.28	2.245				2.26
480	2.23	2.26	2.23				2.24
540	2.22	2.25	2.21				2.23
600	2.21	2.24	2.19				2.21
660	2.19	2.225	2.18				2.20
720	2.175	2.21	2.155				2.18
780	2.03	2.19	2.145				2.17
840	2.09	2.17	2.13				2.15
900	2.12	2.16	2.12				2.14
960	2.12	2.135	2.12				2.13
1020	2.10	2.10	2.11				2.10
1080	2.07	2.075	2.10				2.08
1140	2.06	2.08	2.09				2.075
1200	2.045	2.07	2.085				2.065
1260	2.035	2.055	2.07				2.05
1320	2.025	2.03	2.05				2.035
1380	2.02	2.005	2.02				2.03
1440	2.01						2.004
1500	2.005						2.0

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TABLE 31 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. [redacted] CURRENT DENSITY 5 ohms

UNCLASSIFIED

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	55.9	55.5	55.5	55.5			55.6
Diameter, in.	1.3878	1.3880	1.3876	1.3873			1.3877
Weight, gm.	2.3906	2.3854	2.3878	2.3802			2.3860
Density - gms/cm^3	1.78	1.79	1.78	1.79			1.79
Growth, mils.	7.8	8.0	7.6	7.3			7.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.26	2.43	2.32	2.35			2.34
Time to 2.0 V. Sec.	90	77	86	94			87
Alloy, Count	0	0	0	0			0
Deformation, Mils.	1.8	2.7	1.7	3.2			2.1
Wetting, %	60	60	60	60			60

	Voltage						
60 Seconds	2.10	2.23	2.22	2.23			2.20
120	.90	.75	.82	.85			.83
180							
240							
300							
360 O.C.V.	2.75	2.70	2.75	2.70			
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

UNCLASSIFIED

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TABLE 32 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-3B CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	.05061	.05052	.05055				.05056
Diameter, in.	1.3877	1.3875	1.3877				1.3876
Weight, gm.	2.3892	2.3747	2.3915				2.3851
Density - gms/cm^3	1.97	1.96	1.97				1.97
Growth, mils.	7.7	7.5	7.7				7.6

Date Pellets Vacuum Dried: 3/11/67

Peak Voltage	2.37	2.32	2.31				2.33
Time to 2.0 V. Sec.	1' 20"	1' 10"	1' 15"				1' 15"
Alloy, Count	Neg.	Neg.	Neg.				Neg.
Deformation, Mils.	-.8	-1.5	-2.7				-1.7
Wetting, %	60	60	60				60

	Voltage						
60 Seconds	2.25	2.13	2.15				2.18
120	.75	.65	.70				.70
180							
240							
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 33 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-3C CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	54.0	55.0	55.5				54.7
Diameter, in.	1.3880	1.3882	1.3878				1.3880
Weight, gm.	2.3048	2.3158	2.3180				2.3129
Density - gms/cm^3	1.78	1.75	1.74				1.76
Growth, mils.	8.0	8.2	7.8				8.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.23	2.33	2.26				2.27
Time to 2.0 V. Sec.	58.0	67.0	61.0				62"
Alloy, Count	Neg.	Neg.	Neg.				Negligibl
Deformation, Mils.	0.0	-1.2	0.0				-0.4
Wetting, %	Bowed 50	Bowed 50	Bowed 50				Bowed 50

	Voltage						
60 Seconds	2.04	2.22	2.04				
120							
180	58.0 sec.	67 sec.	61 sec.				
240							
300 O.C.	2.67	2.67	2.72				
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 34 - ACCEPTANCE TESTS - 18 TON CONSOLIDATION PRESSURE

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-3S (Sandia Powder) CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	60.0	60.4	59.9	59.9			60.1
Diameter, in.	1.3879	1.3882	1.3882	1.3878			1.3880
Weight, gm.	2.3839	2.3823	2.3853	2.3658			2.3793
Density - gms/cm^3	1.66	1.64	1.66	1.65			1.65
Growth, mils.	7.9	8.2	8.2	7.8			8.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.50	2.48	2.47	2.53			2.50
Time to 2.0 V. Sec.	94	85	90	98			92.8
Alloy, Count	15	0	3	2			5
Deformation, Mils.	-3	-3	-1	-1			-2.0
Wetting, %	60	50	60	70			60

	Voltage						
60 Seconds	2.30	2.33	2.33	2.38			
120							
180							
240							
300							
360 O.C.V.	2.65	2.65	2.67	2.63			
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 35 - ACCEPTANCE TESTS - 24 TON CONSOLIDATION PRESSURE

BIMETAL NO. 1 T°C. 500°C

DEB LOT NO. SA-3S CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	57.2	57.4	57.4				57.3
Diameter, in.	1.3880	1.3885	1.3884				1.3883
Weight, gm.	2.3913	2.3800	2.3840				2.3851
Density - gms/cm^3	1.75	1.73	1.74				1.74
Growth, mils.	8.0	8.5	8.4				8.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.38	2.32	2.38				2.36
Time to 2.0 V. Sec.	62	55	48				55
Alloy, Count	4	0	0				1
Deformation, Mils.	0.0	0.0	0.0				0.0
Wetting, %	50	50	50				50

	Voltage						
60 Seconds	2.05						
120							
180							
240							
300							
360 O.C.V.	2.70	Shorted	2.68				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 36 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-4A CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	.0546	.0542	.0539				.0542
Diameter, in.	1.3868	1.3867	1.3869				1.3868
Weight, gm.	2.4000	2.4038	2.3960				2.3993
Density - gms/cm^3	1.83	1.85	1.86				1.85
Growth, mils.	6.8	6.7	6.9				6.8

Date Pellets Vacuum Dried: 3/14/67

Peak Voltage	2.57	2.53	2.53				2.54
Time to 2.0 V. Sec.	915	1125	750				930
Alloy, Count	2.5 mg	16.5 mg	3.4 mg				7.5 mg
Deformation, Mils.	4.1	8.0	8.4				6.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	* 2.15	2.50	2.50				2.50
120	2.23	2.46	2.44				2.45
180	2.24	2.43	2.42				2.43
240	2.24	2.40	2.40				2.40
300	2.20	2.39	2.37				2.38
360	2.19	2.37	2.33				2.35
420	2.18	2.34	2.31				2.33
480	2.20	2.32	2.30				2.31
540	2.20	2.30	2.29				2.29
600	2.20	2.27	2.27				2.27
660	2.18	2.26	2.26				2.26
720	2.15	2.24	2.25				2.25
780	2.15	2.13	1.80				2.14
840	2.13	2.13					2.13
900	2.11	2.15					2.15
960	1.75	2.15					2.15
1020		2.12					2.12
1080		2.05					2.05
1140		1.97					1.97
1200		1.85					1.85
1260							
1320							
1380							
1440							
1500							

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TABLE 37 - ACCEPTANCE TESTS

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-4B CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	53.5	54.0	53.3				53.6
Diameter, in.	1.3866	1.3871	1.3876				1.3871
Weight, gm.	2.3744	2.3958	2.3788				2.3830
Density - gms/cm^3	1.85	1.85	1.86				1.85
Growth, mils.	6.6	7.1	7.6				7.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.52	2.53	2.56				2.54
Time to 2.0 V. Sec.	435	720	482				546
Alloy, Count	20	11	11				14
Deformation, Mils.	0.0	0.0	0.0				0.0
Wetting, %	Bowed 60	Bowed 60	Bowed 60				60

	Voltage						
60 Seconds	2.51	2.52	2.56				
120	2.49	2.47	2.52				
180	2.42	2.42	2.43				
240	2.33	2.42	2.39				
300	2.18	2.39	2.36				
360	2.05	2.38	2.27				
420	2.01	2.36	2.13				
480		2.28	2.01				
540		2.27					
600		2.23					
660		2.12					
720		2.02					
780							
840 O.C.V.	2.53	2.48	2.53				
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 38 - ACCEPTANCE TESTS - 18 TON CONSOLIDATION PRESSURE

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-4S CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	57.0	55.5	55.8	56.8			56.3
Diameter, in.	1.3858	1.3860	1.3858	1.3852			1.3857
Weight, gm.	2.3773	2.3712	2.3726	2.3830			2.3760
Density - gms/cm^3	1.74	1.78	1.78	1.76			1.77
Growth, mils.	5.8	6.0	5.8	5.2			5.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.58	2.52	2.58	2.58			2.57
Time to 2.0 V. Sec.	1304	1158	550	680			923
Alloy, Count	50	45	50	55			50
Deformation, Mils.	All pellets cracked						--
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.41	2.32	2.54	2.58			
120	2.41	2.42	2.44	2.49			
180	2.39	2.39	2.42	2.46			
240	2.38	2.38	2.38	2.42			
300	2.37	2.37	2.36	2.39			
360	2.34	2.34	2.30	2.36			
420	2.34	2.33	2.25	2.31			
480	2.32	2.29	2.50	2.26			
540	2.31	2.27	2.05	2.16			
600	2.28	2.25		2.04			
660	2.26	2.23		2.02			
720	2.22	2.19					
780	2.19	2.17					
840	2.17	2.16					
900	2.13	2.08					
960	2.11	2.02					
1020	2.08	2.01					
1080	2.08	2.02					
1140	2.03	2.01					
1200	2.02						
1260	2.02						
1320							
1380 O.C.V.	2.38	2.39	2.55	2.56			
1440							
1500							

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TABLE 39 - ACCEPTANCE TESTS - 24 TON CONSOLIDATION PRESSURE

BIMETAL NO. 1 T°C 500°C

DEB LOT NO. SA-4S CURRENT DENSITY 5 ohms

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	54.1	53.9	54.2	53.4			53.9
Diameter, in.	1.3860	1.3856	1.3860	1.3868			1.3861
Weight, gm.	2.3800	2.3786	2.3800	2.3735			2.3780
Density - gms/cm^3	1.83	1.85	1.84	1.86			1.85
Growth, mils.	6.0	5.6	6.0	6.8			6.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.56	2.58	2.58	2.48*			2.56
Time to 2.0 V. Sec.	576	814	745	1266			850
Alloy, Count	66	70	75	90			75
Deformation, Mils.	6	Pellet Cracked	Pellet Cracked	6			6
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	Shorted	2.53	2.46	2.48			
120	2.23	2.48	2.43	2.43			
180	2.24	2.43	2.39	2.41			
240		2.39	2.38	2.39			
300	2.24	2.37	2.36	2.37			
360	2.23	2.34	2.32	2.34			
420	2.22	2.32	2.27	2.33			
480	2.19	2.26	2.22	2.31			
540	2.09	2.24	2.17	2.27			
600		2.19	2.13	2.24			
660		2.14	2.09	2.23			
720		2.12	2.03	2.19			
780		2.05		2.18			
840				2.16			
900				2.12			
960				2.11			
1020				2.08			
1080				2.04			
1140				2.03			
1200							
1260 O.C.V.	2.43	2.42	2.42	2.42			
1320							
1380							
1440							
1500	* Low peak voltage due to shorting.				All traces noisy		

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TABLE 40 - PARAMETER STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1A CURRENT DENSITY 3A/sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3867	1.3867	1.3867			1.3852
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	6.7	6.7	6.7			6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	1.62	1.67	1.62	1.61			1.63
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	Neg.	Neg.	Neg.	Neg.			0
Deformation, Mils.	2.7	1.9	4.6	4.4			3.4
Wetting, %	90	70	90	80			80

	Voltage						
60 Seconds	1.00	1.10	1.05	1.10			1.06
120	.40	.45	.42	.40			.42
180	.25	.30	.22	.21			.25
240	.12	.15	.10	.11			.12
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 41 - PARAMETER STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1A CURRENT DENSITY 3A/sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 25 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3878	1.3875				1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	7.8	7.5				7.7

Date Pellets Vacuum Dried: _____

Peak Voltage	1.84	1.86	1.85				1.85
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	Neg.	Neg.	Neg.				Negative
Deformation, Mils.	19.5	20.7	14.0				18.1
Wetting, %	70	70	70				70

	Voltage						
60 Seconds	1.20	1.42	1.32				1.31
120	.68	.74	.72				.71
180	.52	.60	.53				.55
240	.44	.48	.42				.45
300							
360							
420 O.C.V.	2.37	2.37	2.37				2.37
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 42 - PARAMETER STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1A CURRENT DENSITY 3 Amp/sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3885	1.3877	1.3875				1.3879
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.5	7.7	7.5				7.9

Date Pellets Vacuum Dried: _____

Peak Voltage	1.94	1.91	1.94				1.93
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	Neg.	Neg.	Neg.				Negative
Deformation, Mils.	43.7	45.4	48.3				45.8
Wetting, %	70	70	70				70

	Voltage						
60 Seconds	1.00	.84	.96				.93
120	.60	.57	.76				.65
180	.50	.47	.47				.48
240	.46	.31	.41				.39
300							
360							
420 O.C.V.	2.35	2.40	2.33				2.36
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 43 - PARAMETER STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1A CURRENT DENSITY 3 Amp./sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 200 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3875	1.3871				1.3874
Weight, gm.	2.3766	2.3808	2.3920				2.3831
Density - gms/cm^3							
Growth, mils.	7.7	7.7	7.7				7.4

Date Pellets Vacuum Dried: _____

Peak Voltage	1.94	1.97	2.05				1.99
Time to 2.0 V. Sec.			6 sec.				
Alloy, Count	Neg.	Neg.	Neg.				Negative
Deformation, Mils.	141.1	132.9	157.6				143.9
Wetting, %	80	80	80				80

	Voltage						
60 Seconds	1.00	1.08	.98				1.02
120	.43	.56	.66				.55
180	.38	.48	.32				.39
240	.36	.42	.42				.40
300							
360							
420	2.40	2.37	2.42				2.40
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 44 - PARAMETER STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1A CURRENT DENSITY 1.5 Amp./sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3879	1.3870	1.3873				1.3874
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.9	7.0	7.3				7.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.09	2.15	2.12				2.12
Time to 2.0 V. Sec.	41.0 sec	35 sec	35 sec				37.0 sec
Alloy, Count	Neg.	Neg.	Neg.				Negative
Deformation, Mils.	8.9	7.6	6.2				7.6
Wetting, %	80	80	80				80

	Voltage						
60 Seconds	1.85	1.92	2.00				1.92
120	.88	.80	.92				.87
180	.67	.63	.58				.63
240	.49	.45	.58				.51
300							
360							
420 O.C.V.	2.42	2.42	2.38				2.41
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

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TABLE 45 - PARAMETER STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1A CURRENT DENSITY 1.0 Amp/sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3879	1.3870				1.3873
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	7.9	7.0				7.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.25	2.27	2.26				2.26
Time to 2.0 V. Sec.	63 sec.	100 sec	58 sec.				74 sec.
Alloy, Count	8	3	2				4
Deformation, Mils.	7.2	7.9	6.2				7.1
Wetting, %	80	90	80				80

	Voltage						
60 Seconds	2.13	2.17	2.15				2.15
120	1.42	1.97	1.33				1.57
180	1.34	1.40	1.64				1.46
240	1.16	1.25	1.34				1.25
300							
360							
420 O.C.V.	2.40	2.38	2.45				2.41
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 46

C - Denotes Cell
B - Denotes Battery

PARAMETER STUDY - PRESSURE SECTION

Battery or Cell No.	C-47	C-48	C-50		Average Remarks
Bimetal Weight - gms.	1.380	1.380	1.380		Bimetal #1
Acetate Dip Number	--	--	--		
Treatment	--	--	--		
DEB Blend No.	SA-1A	SA-1A	SA-1A		
DEB Weight - gms.	--	--	--		
End Heat Pellet Weight-gms.	--	--	--		
Cell Heat Pellet Weight-gms.	--	--	--		
Stack Pressure	1380 gms	1380 gms	1380 gms		
Temperature °C	550	550	550		
Current Drain ma./Sq. In. @ V.	0.7	0.7	0.7		
P. V.	2.77	2.65			
2.50 V. - Seconds		1230			
2.25 V. - Seconds	Alloy on center mandrel shorted at 33 seconds	2520	Alloy on center mandrel shorted at 148 seconds		
2.00 V. - Seconds		2809			
1.90 V. - Seconds					
12.0 V. - Seconds					
11.0 V. - Seconds					
10.0 V. - Seconds					
9.0 V. - Seconds					
OCV. -					
Alloy	57.9 mg	31.7 mg	25.5 mg		
Noise	Through Complete V. Trace	Shorted 22 sec. to 52 sec. Noise to 420 sec.	Noise after 60 seconds.		
Setting %	100	100	100		
Node Appearance					
Pellet Deformation - Dia.	1.9 mils	22.3 mils	8 mils		

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TABLE 47 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 550

DEB LOT NO. SA-1A CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT None

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3887	1.3882	1.3881				1.3883
Weight, gm.	2.3646	2.3806	2.3791				2.3748
Density - gms/cm^3							
Growth, mils.	8.7	8.2	8.1				8.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.74	2.75	2.70				2.73
Time to 2.0 V. Sec.	295	714	1370				
Alloy, Count	48	42	32				41
Deformation, Mils.	*	*	*				
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.72	2.73	2.55				
120	2.68	2.69	2.51				
180	2.66	2.65	2.55				
240	2.63	2.65	2.58				
300		2.63	2.55				
360		2.56	2.51				
420		2.55	2.46				
480		2.54	2.43				
540		2.48	2.42				
600		2.43	2.36				
660		2.37	2.32				
720		2.22	2.27				
780		1.57	2.24				
840			2.23				
900			2.22				
960			2.22				
1020			2.21				
1080			2.18				
1140			2.17				
1200			2.15				
1260			2.12				
1320			2.08				
1380			1.98**				
1440							
1500							

Alloy in center of cell

Noise of 1/2 V. magnitude @ 320 sec.

* - Alloy Formation prevented deformation determination

** - Alloy caught fire @ 270 sec.

[redacted]

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TABLE 48 - PARAMETER STUDY, PRESSURE-TEMPERATURE-CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-1D CURRENT DENSITY 1 A/sq. in.

ACETATE COAT None

LBS. OF FORCE ON CELL 25 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3888		1.3890	1.3884			1.3887
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.8		9.0	8.4			8.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.28		2.32	2.28			2.29
Time to 2.0 V. Sec.	47		43	46			45
Alloy, Count	4		neg	5			5
Deformation, Mils.	2.2		3.0	2.1			
Wetting, %	Bowed 50%		Bowed 70%	Bowed 50%			60%

	Voltage						
60 Seconds	1.30		1.10	1.10			1.17
120	.72		.70	.78			.73
180	.72		.62	.58			.64
240	.52		.67	.51			.57
300							
360 O.C.	2.57		2.58	2.55			
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 49 - PARAMETER STUDY, PRESSURE-TEMPERATURE-CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 500

DEB LOT NO. SA-1D CURRENT DENSITY 1A/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 25 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3883	1.3885	1.3885				1.3884
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.2	8.5	8.5				8.4

Date Pellets Vacuum Dried:

Peak Voltage	2.39	2.37	2.31				2.36
Time to 2.0 V. Sec.	85	78	70				78
Alloy, Count	-	2	4				3
Deformation, Mils.	Pellet Broke	10.7	10.7				10.7
Wetting, %		Bowed 70	Bowed 70				Bowed 70

	Voltage						
60 Seconds	2.12	2.08	2.03				2.08
120	.73	1.10	1.04				.96
180	1.58	1.64	1.91				1.71
240	1.44	1.36	1.56				1.45
300							
360 O.C.	2.55	2.50	2.50				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 50 - PARAMETER STUDY, PRESSURE-TEMPERATURE-CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3886	1.3879	1.3882				1.3882
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.6	7.9	8.2				8.2

Date Pellets Vacuum Dried:

Peak Voltage	2.43	2.43	2.42				2.43
Time to 2.0 V. Sec.	66	67	68				67
Alloy, Count	42	78	52				57
Deformation, Mils.	1.6	2.6	1.8				2.0
Wetting, %	60	60	60				60

	Voltage						
60 Seconds	2.14	2.15	2.15				2.15
120	.85	.69	.56				.70
180	1.37	1.23	1.09				1.23
240	1.00	.90	1.01				.97
300							
360 O.C.V.	2.62	2.60	2.63				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 51 - PARAMETER STUDY, PRESSURE-TEMPERATURE-CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3963	1.3881				1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	6.3	8.1				7.2

Date Pellets Vacuum Dried:

Peak Voltage	2.43	2.43	2.43				2.43
Time to 2.0 V. Sec.	65	63	65				64
Alloy, Count	114	92	130				112
Deformation, Mils.	4.9	6.2	4.9				5.3
Wetting, %	60	60	60				60

	Voltage						
60 Seconds	2.13	2.05	2.13				2.10
120	1.62	1.28	1.30				1.40
180	1.47	1.45	1.61				1.51
240	1.24	1.29	1.22				1.25
300							
360 O.C.V.	2.63	2.60	2.62				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 52 - PARAMETER STUDY, TEMPERATURE-PRESSURE SECTION

BIMETAL NO. 1 T°C 500

DEB LOT NO. SA-1D CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 25 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3888	1.3882	1.3883				1.3884
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.8	8.2	8.3				8.4

Date Pellets Vacuum Dried:

Peak Voltage	2.85	2.84	2.90				2.86
Time to 2.0 V. Sec.	468	269	646				
Alloy, Count	68*	45*	87*				67
Deformation, Mils.	11.7	17.8	16.7				15.4
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.65	2.68	2.64				
120	2.76	2.77	2.74				
180	2.76	2.77	2.77				
240	2.77	2.77	2.77				
300	2.77	1.10	2.78				
360	2.77		2.78				
420	2.73		2.78				
480			2.78				
540			2.78				
600							
660	2.82						
720	2.85						
780							
840 O.C.V.							
900							
960							
1020							
1080	*Alloy	*Alloy	*Alloy				
1140	in	in	in				
1200	Center	Center	Center				
1260							
1320							
1380							
1440							
1500							

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TABLE 53 - PARAMETER STUDY, TEMPERATURE-PRESSURE SECTION

BIMETAL NO. 1 T°C. 550

DEB LOT NO. SA-1D CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 25 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3882	1.3880	1.3876				1.3879
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.2	8.0	7.6				7.9

Date Pellets Vacuum Dried:

Peak Voltage	2.93	2.87	2.93				2.91
Time to 2.0 V. Sec.	>3600	>3600	>3600				>3600
Alloy, Count	80	50	55				62
Deformation, Mils.	18.0	18.5	21.8				19.4
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.39	2.51	2.42				
120	after 1hr	after 1hr	after 1hr				
180							
240	Small fluctuations		in voltage traces		throughout	lives	
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 54 - PARAMETER STUDY, TEMPERATURE-PRESSURE SECTION

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-1D CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3883	1.3885	1.3884				1.3884
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.3	8.5	8.4				8.4

Date Pellets Vacuum Dried:

Peak Voltage	2.76	2.74	2.75				2.75
Time to 2.0 V. Sec.	1423	1382	1249				1351
Alloy, Count	140	165	152				152
Deformation, Mils.	105.7	122.5	116.6				113.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.53	2.45	2.33				
120	2.58	2.42	2.48				
180	2.57	2.42	2.57				
240	2.53	2.32	2.43				
300	2.42	2.28	2.39				
360	2.37	2.23	2.37				
420	2.29	2.15	2.36				
480	2.29	2.08	2.31				
540	2.24	2.07	2.27				
600	2.20	2.09	2.26				
660	2.13	2.13	2.23				
720	2.11	2.17	2.23				
780	2.08	2.22	2.23				
840	2.14	2.23	2.22				
900	2.17	2.21	2.19				
960	2.24	2.13	2.16				
1020	2.24	2.12	2.14				
1080	2.18	2.08	2.12				
1140	2.16	2.14	2.08				
1200	2.08	2.08	2.04				
1260	2.07	2.05					
1320	2.03	2.06					
1380	2.02	2.01					
1440							
1500							

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TABLE 55 - PARAMETER STUDY, TEMPERATURE-PRESSURE SECTION

BIMETAL NO. 1 T°C. 600

DEB LOT NO. SA-1D CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3881	1.3887	1.3885				1.3884
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.1	8.7	8.5				8.4

Date Pellets Vacuum Dried:

Peak Voltage	2.78	2.78	2.78				2.78
Time to 2.0 V. Sec.	33	59	76				56
Alloy, Count	290	260	305				285
Deformation, Mils.	Masked by alloy	108	Masked by alloy				Masked by alloy
Wetting, %	100	100	100				100

	Voltage						
60 Seconds			2.15				
120							
180							
240							
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

Alloy in Center of Cell

Alloy in Center of Cell

Alloy in Center of Cell

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TABLE 56 - PARAMETER STUDY, BIMETAL SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3872	1.3859	1.3864			1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	7.2	5.9	6.4			6.5

Date Pellets Vacuum Dried:

Peak Voltage	2.41	2.41	2.41	2.39			2.41
Time to 2.0 V. Sec.	74	83	66	75			75
Alloy, Count	0	0	0	0			0
Deformation, Mils.	3.8	2.8	3.8	2.2			3.2
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	2.26	2.28	2.18	2.28			2.25
120	.66	.86	.80	2.00			1.08
180	1.42	.75	1.99	.53			1.17
240	.71	1.00	.80	1.00			.88
300							
360							
420 O.C.V.	2.55	2.50	2.55	2.50			
480							
540							
600	Saddles in the						
660	Voltage Traces						
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 57 - PARAMETER STUDY, STANDARD PA[redacted]

BIMETAL NO. 2 T°C 450

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3862	1.3870				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.2	7.0				6.5

Date Pellets Vacuum Dried:

Peak Voltage	2.39	2.40	2.41				2.40
Time to 2.0 V. Sec.	38	37	37				37
Alloy, Count	0	0	0				0
Deformation, Mils.	1.3	6.6	3.6				3.8
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.24	2.24	2.26				2.25
120	1.26	.96	1.25				1.16
180	.94	.79	1.23				.99
240	.83	.66	1.12				.87
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660	Saddles	in the					
720	Voltage	Traces					
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 58 - PARAMETER STUDY, BIMETAL SECTION

BIMETAL NO. 3 T°C 450

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3864	1.3862				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	6.4	6.2				6.5

Date Pellets Vacuum Dried:

Peak Voltage	2.22	2.18	2.18				2.19
Time to 2.0 V. Sec.	63	73	62				66
Alloy, Count	0	0	0				0
Deformation, Mils.	3.2	1.7	3.8				2.9
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.07	2.08	2.09				2.08
120	1.25	0.90	1.52				1.22
180	1.15	0.90	1.42				1.16
240	1.22	1.20	.94				1.12
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 59 - PARAMETER STUDY, BIMETAL SECTION

BIMETAL NO. 2 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3863	1.3871				1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.3	7.1				6.7

Date Pellets Vacuum Dried:

Peak Voltage	2.92	2.91	2.91				2.91
Time to 2.0 V. Sec.	27	24	22				24
Alloy, Count	85	64	73				74
Deformation, Mils.	127.9	124.5	128.2				126.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	1.40	1.29	1.02				1.24
120	1.34	1.52	1.02				1.29
180	1.79	2.02	1.22				1.68
240	1.91	2.11	1.42				1.81
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 60 - PARAMETER STUDY, BIMETAL SECTION

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3861	1.3866	1.3866	1.3865			1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.1	6.6	6.6	6.5			6.5

Date Pellets Vacuum Dried:

Peak Voltage	2.90	2.89	2.88	2.89			2.89
Time to 2.0 V. Sec.	21	26	39	34			30
Alloy, Count	88	112	68	73			85
Deformation, Mils.	Masked	Masked	114.3	121.3			117.8
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	1.25	1.25	1.75	1.55			1.45
120	1.34	1.63	1.83	1.95			1.70
180	2.25	2.17	1.98	2.33			2.18
240	2.40	2.33	2.03	2.40			2.29
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 61 - PARAMETER STUDY, BIMETAL SECTION

BIMETAL NO. 2 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3870	1.3863				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	7.0	6.3				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.25	2.33	2.32				2.30
Time to 2.0 V. Sec.	90	91	79				87
Alloy, Count	2	14	4				7
Deformation, Mils.	1.2	0.0	0.7				0.6
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.23	2.22	2.18				2.21
120	1.35	1.41	1.40				1.39
180	1.13	.95	1.20				1.09
240	1.05	.85	1.02				.97
300							
360							
420 O.C.V.	2.55	2.55	2.55				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 62 - PARAMETER STUDY, BIMETAL SECTION

BIMETAL NO. 3 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3862	1.3847				1.3858
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.2	4.7				5.8

Date Pellets Vacuum Dried:

Peak Voltage	2.32	2.25	2.25				2.27
Time to 2.0 V. Sec.	68	71	89				66
Alloy, Count	19	23	20				20
Deformation, Mils.	0.3	0.6	1.7				0.9
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.13	2.13	2.13				2.13
120	2.03	1.88	1.19				1.70
180	1.63	1.46	.90				1.33
240	1.14	1.30	.84				1.09
300							
360							
420 O.C.V.	2.60	2.60	2.60				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 63 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C. 450

DEB LOT NO. SA-2A CURRENT DENSITY 3 A./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3857	1.3863	1.3857	1.3859			1.3859
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.7	6.3	5.7	5.9			5.9

Date Pellets Vacuum Dried: 3-10-67

Peak Voltage	1.80	1.70	1.81	1.80			1.78
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	Neg	Neg	Neg	Neg			0
Deformation, Mils.	10.2	5.0	--	5.7			7.0
Wetting, %	95	70	90	80			85

	Voltage						
60 Seconds	1.80	1.60	1.81	1.79			1.75
120	1.58	1.22	1.44	1.50			1.44
180	.84	1.03	1.08	.70			.91
240	.78	.84	.86	.56			.76
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 64 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2A CURRENT DENSITY 3A/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 25 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3855	1.3859	1.3858				1.3857
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.5	5.9	5.8				5.7

Date Pellets Vacuum Dried:

Peak Voltage	1.85	1.84	1.84				1.84
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	34.8	44.8	27.5				44.9
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	1.36	1.34	1.36				1.34
120	.62	.80	.94				.79
180	.50	.48	.40				.46
240	.38	.46	.34				.39
300							
360							
420 O.C.V.	2.37	2.35	2.35				2.36
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 65 - PARAMETER STUDY, PRESSURE [redacted]

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2A CURRENT DENSITY 3 Amp./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3865	1.3870				1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.5	7.0				6.7

Date Pellets Vacuum Dried:

Peak Voltage	2.00	1.95	1.96				1.97
Time to 2.0 V. Sec.	3	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	95.7	101.3	96.6				97.9
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	1.02	.96	.96				.98
120	.50	.66	.32				.49
180	.43	.37	.35				.38
240	.45	.40	.38				.41
300							
360							
420 O.C.V.	2.45	2.37	2.30				2.37
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 66 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2A CURRENT DENSITY 3 Amp./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 200 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3862	1.3862				1.3816
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.2	6.2				6.1

Date Pellets Vacuum Dried:

Peak Voltage	2.15	2.25	2.21				2.20
Time to 2.0 V. Sec.	7	10	6				7.7
Alloy, Count	0	0	0				0
Deformation, Mils.		390.6	388.0				389.3
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	.76	.79	.66				.74
120	.34	.43	.40				.39
180	.33	.41	.29				.34
240	.30	.24	.31				.28
300							
360							
420 O.C.V.	2.45	2.45	2.50				2.47
480							
540							
600	*Slow recovery on open circuit						
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 67 - PARAMETER STUDY, CURRENT [redacted]

BIMETAL NO. 1 T°C. 450

DEB LOT NO. SA-2A CURRENT DENSITY 1.5 A./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3856	1.3857	1.3860	1.3857			1.3858
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.6	5.7	6.0	5.7			5.8

Date Pellets Vacuum Dried:

Peak Voltage	2.14	2.20	2.15	2.16			2.16
Time to 2.0 V. Sec.	40	54.0	48.0	50			48
Alloy, Count	0	0	0	0			0
Deformation, Mils.	18.0	12.2	10.5	17.0			14.4
Wetting, %	80	80.0	85.0	90.0			85

	Voltage						
60 Seconds	2.00	2.04	2.05	2.03			2.03
120	1.30	1.60	1.46	1.66			1.56
180	.93	.93	1.02	1.30			1.05
240	.88	.83	.96	.76			.86
300							
360							
420 O.C.V.	2.32	2.35	2.35	2.33			2.34
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 68 - PARAMETER STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2A CURRENT DENSITY 1.0 Amp./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3859	1.3859	1.3859				1.3859
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.9	5.9	5.9				5.9

Date Pellets Vacuum Dried:

Peak Voltage	2.28	2.24	2.26				2.26
Time to 2.0 V. Sec.	55	59	60				58
Alloy, Count	0	0	0				0
Deformation, Mils.	7.1	10.0	10.4				9.2
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.23	2.24	2.20				2.22
120	2.00	1.71	1.74				1.82
180	1.44	1.48	1.44				1.45
240	1.24	1.18	1.82				1.41
300							
360							
420 O.C.V.	2.38	2.40	2.37				2.38
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 69 - PARAMETER STUDY, PRESSURE S[redacted]

BIMETAL NO. 1 T°C 550

DEB LOT NO. SA-2A CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3864	1.3868				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.4	6.8				6.4

Date Pellets Vacuum Dried:

Peak Voltage	2.81	2.77	2.77				2.78
Time to 2.0 V. Sec.	140	70	30				
Alloy, Count	75	54.3	33.3				52.9
Deformation, Mils.	14.5	18.4	17.9				16.9
Wetting, %	100	100	100				

	Voltage						
60 Seconds	2.80	2.75					
120							
180							
240							
300							
360							
420							
480	Alloy on center mandrel	Alloy on center mandrel	Alloy on center mandrel				
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 70 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2B CURRENT DENSITY 1000 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 9 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3857	1.3859				1.3859
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	5.7	5.9				5.9

Date Pellets Vacuum Dried:

Peak Voltage	2.37	2.37	2.34				2.35
Time to 2.0 V. Sec.	155	168	102				142
Alloy, Count	5	5	5				5
Deformation, Mils.	14.8	15.3	23.1				17.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.15	2.17	2.24				
120	2.21	2.23					
180							
240							
300 O.C.V.	2.53	2.52	2.53				
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 71 - PARAMETER STUDY, TEMPERAT[redacted]

BIMETAL NO. 1 T°C 500

DEB LOT NO. SA-2B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 9 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3854	1.3854	1.3860				1.3856
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.4	5.4	6.0				5.6

Date Pellets Vacuum Dried:

Peak Voltage	2.43	2.43	2.43				2.43
Time to 2.0 V. Sec.	250	260	240				250
Alloy, Count	126	133	125				128
Deformation, Mils.	26.6	30.6	29.0				28.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.28	2.27	2.27				
120	2.18	2.19	2.18				
180	2.13	2.13	2.12				
240	2.03	2.03	2.00				
300							
360							
420 O.C.V.	2.35	2.35	2.41				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 72 - PARAMETER STUDY, TEMPERATURE-CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 550

DEB LOT NO. SA-2B CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 9 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3858	1.3860	1.3860				1.3859
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.8	6.0	6.0				5.9

Date Pellets Vacuum Dried:

Peak Voltage	2.81	2.83	2.82				2.82
Time to 2.0 V. Sec.	676	737	155				" 523
Alloy, Count	272	242	210				242
Deformation, Mils.	Deformation masked by alloy		56.5				
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.78	2.81	2.82				2.80
120	2.81	2.83	2.73				2.79
180	2.78	2.81					2.80
240	2.78	2.79					2.79
300	2.68	2.78					2.73
360	2.67	2.76					2.72
420	2.62	2.73					2.68
480	2.58	2.70					2.64
540	2.54	2.58					2.56
600	2.38	2.54					2.46
660	2.05	2.33					2.19
720		2.20					
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 73 - PARAMETER STUDY, PRESSURE [redacted]

BIMETAL NO. 1 T°C 550

DEB LOT NO. SA-2B CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 15 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3861	1.3859	1.3857				1.3859
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.1	5.9	5.7				5.9

Date Pellets Vacuum Dried:

Peak Voltage	2.78	2.79	2.81				2.79
Time to 2.0 V. Sec.	193	100	418				237
Alloy, Count	132	126	148				135
Deformation, Mils.	50.1	49.1	60.2				53.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.70	2.79	2.81				
120	2.75		2.78				
180			2.76				
240			2.74				
300			2.71				
360			2.68				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

Alloy in center of stack

Alloy in center of stack

Alloy in center of stack

[redacted]

[redacted]

TABLE 74 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 15 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3860	1.3862				1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.0	6.2				6.1

Date Pellets Vacuum Dried:

Peak Voltage	2.32	2.25	2.25				2.27
Time to 2.0 V. Sec.	89	96	78				88
Alloy, Count	0	0	3				1
Deformation, Mils.	17.2	22.7	19.4				19.8
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.20	2.20	2.15				2.18
120	1.36	1.08	1.44				1.29
180	1.20	1.54	1.88				1.54
240	1.60	1.22	1.11				1.31
300							
360							
420 O.C.V.	2.40	2.40	2.38				2.39
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 75 - PARAMETER STUDY, TEMPER[redacted]-CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 500

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 9 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3860	1.3860				1.3860
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.0	6.0				6.0

Date Pellets Vacuum Dried:

Peak Voltage	2.78	2.76	2.74				2.76
Time to 2.0 V. Sec.	221	245	160				209
Alloy, Count	188	177	183				183
Deformation, Mils.	19.0	19.0	21.0				19.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.78	2.75	2.76				
120	2.78	2.68	2.73				
180	2.77	2.76					
240		2.48					
300							
360	cell	cell	cell				
420	shorted	shorted	shorted				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 76 - PARAMETER STUDY, STANDARD PARAMETERS

BIMETAL NO. 1 T°C. 450

DEB LOT NO. SA-2D CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 15 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3860	1.3865				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	6.0	6.5				6.3

Date Pellets Vacuum Dried:

Peak Voltage	2.29	2.34	2.32				2.32
Time to 2.0 V. Sec.	69	69	70				69
Alloy, Count	7	3	7				6
Deformation, Mils.	1.5	2.5	1.5				1.8
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.23	2.23	2.24				2.23
120	.70	1.40	1.32				1.14
180	1.75	1.08	1.26				1.36
240	1.14	1.08	1.14				1.12
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 77 - PARAMETER STUDY, STANDARD PARAMETERS [redacted]

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2D CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3874	1.3866				1.3871
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	7.4	6.6				7.1

Date Pellets Vacuum Dried:

Peak Voltage	2.86	2.83	2.83				2.84
Time to 2.0 V. Sec.	35	31	26				31
Alloy, Count	315	310	255				293
Deformation, Mils.	107.8	117.6	108.4				111.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	Shorted	Shorted	Shorted				
120							
180							
240							
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 78 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3A CURRENT DENSITY 3000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3875	1.3876	1.3872			1.3874
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	7.5	7.6	7.2			7.4

Date Pellets Vacuum Dried: 3-11-67

Peak Voltage	.19	.34	.28	.25			.27
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.		-3.2	-2.1				-2.6
Wetting, %		30	20				25

	Voltage						
60 Seconds	.14V	.34V	.22V	.16V			.22V
120	.05	.09	.08	.08			.08
180							
240							
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 79 - PARAMETER STUDY, PRESSUR[redacted]

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3A CURRENT DENSITY 3000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 25lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3883	1.3885				1.3882
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	8.3	8.5				8.2

Date Pellets Vacuum Dried:

Peak Voltage	.48	.65	.50				.54
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	0.6	0.8	0.3				0.6
Wetting, %	40	40	40				40

	Voltage						
60 Seconds Volts	.37	.40	.43				.40
120	.21	.21	.30				.24
180	.13	.13	.16				.14
240	.15	.13	.13				.14
300							
360							
420 O.C.V.	2.59	2.60	2.61				2.60
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 80 - PARAMETER STUDY, PRESSURE SECTION [redacted]

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3A CURRENT DENSITY 3000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3877	1.3879				1.3875
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	7.7	7.9				7.5

Date Pellets Vacuum Dried:

Peak Voltage	1.20	1.05	1.16				1.14
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	2.2	3.8	0.8				2.3
Wetting, %	80	80	80				80

	Voltage						
60 Seconds Volts	.42	.44	.47				.44
120	.28	.28	.35				.30
180	.17	.16	.18				.17
240	.20	.19	.20				.20
300							
360							
420	2.56	2.60	2.52				2.56
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 81 - PARAMETER STUDY, PRESSURE [redacted]

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3A CURRENT DENSITY 3000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 200 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3879	1.3876				1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	7.9	7.6				7.7

Date Pellets Vacuum Dried:

Peak Voltage	1.70	1.68	1.80				1.73
Time to 2.0 V. Sec.	0	0	0				
Alloy, Count	0	0	0				0
Deformation, Mils.	2.4	2.3	2.8				2.5
Wetting, %	80	80	80				80

	Voltage						
60 Seconds Volts	.58	.54	.52				.55
120	.27	.25	.24				.25
180	.26	.23	.24				.24
240	.16	.23	.23				.21
300							
360							
420 O.C.V.	2.57	2.55	2.57				2.56
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 82 - PARAMETER STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3A CURRENT DENSITY 1500 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3881	1.3889	1.3880				1.3883
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.1	8.9	8.0				8.3

Date Pellets Vacuum Dried:

Peak Voltage	.29	.36	.29				.31
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	0.0	-1.2	0.0				-0.4
Wetting, %	20	20	20				20

		Voltage						
60 Seconds	Volts	.21	.32	.21				.25
120		.12	.21	.13				.15
180		.08	.13	.10				.10
240		.07	.11	.09				.09
300								
360								
420	O.C.V.	2.67	2.67	2.67				2.67
480								
540								
600								
660								
720								
780								
840								
900								
960								
1020								
1080								
1140								
1200								
1260								
1320								
1380								
1440								
1500								

[redacted]

TABLE 83 - PARAMETER STUDY, CURREN[redacted]

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3A CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3877	1.3876				1.3877
Weight, gm.	2.3870	2.3886	2.3900				2.3885
Density - gms/cm^3							
Growth, mils.	7.7	7.7	7.6				7.7

Date Pellets Vacuum Dried:

Peak Voltage	.50	.53	.48				.50
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	-1.6	-0.3	-0.2				-0.7
Wetting, %	10	10	10				10

		Voltage						
60 Seconds	Volts	.28	.29	.25				.27
120		.25	.20	.12				.19
180		.20	.15	.12				.14
240		.14	.16	.08				.13
300								
360								
420	O.C.V.	2.65	2.63	2.65				2.64
480								
540								
600								
660								
720								
780								
840								
900								
960								
1020								
1080								
1140								
1200								
1260								
1320								
1380								
1440								
1500								

[redacted]

[redacted]

TABLE 84 - PARAMETER STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3C CURRENT DENSITY 200 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3880	1.3878	1.3881				1.3880
Weight, gm.	2.3723	2.3685	2.3827				2.3745
Density - gms/cm^3							
Growth, mils.	8.0	7.8	8.1				8.0

Date Pellets Vacuum Dried:

Peak Voltage	2.48	2.42	2.42				2.44
Time to 2.0 V. Sec.	138"	60"	78"				92"
Alloy, Count	0	0	0				0
Deformation, Mils.	0.0	0.9	0.0				0.3
Wetting, %	50	50	50				50

	Voltage						
60 Seconds	2.47	2.00	2.42				2.30
120	2.36	1.27	1.26				1.63
180	1.66	1.04	1.02				1.24
240	1.04	.85	.74				.88
300							
360	O.C. 2.63	2.65	2.65				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 85 - PARAMETER STUDY, PRESSURE SE[redacted]

BATTERY AND CELL TEST

C - DENOTES CELL
B - DENOTES BATTERY

[redacted]

BATTERY OR CELL NO.					AVERAGE REMARKS
BIMETAL WEIGHT - GMS.	1.380	1.380	1.380		
ACETATE DIP NUMBER	--	--	--		
TREATMENT	--	--	--		
DEB BLEND NO.	SA-3A	SA-3A	SA-3A		
DEB WEIGHT - GMS.	--	--	--		
END HEAT PELLET WEIGHT-GMS.	--	--	--		
CELL HEAT PELLET WEIGHT-GMS.	--	--	--		
STACK PRESSURE	1380 gms	1380 gms	1380 gms		
TEMPERATURE °C	550	550	550		
CURRENT DRAIN ma./SQ. IN. @ V.	0.7	0.7	0.7		
P. V.	2.97	2.96	2.96		2.96
2.50 V. - SECONDS	7800	6130	5600		6510
2.25 V. - SECONDS	9180	6740	5880		7267
2.00 V. - SECONDS	10191	7417	6320		7976
1.90 V. - SECONDS					
12.0 V. - SECONDS					
11.0 V. - SECONDS					
10.0 V. - SECONDS					
9.0 V. - SECONDS					
OCV. -					
ALLOY	13.0 mg.	23.0 mg.	16.3 mg.		17.4 mg.
NOISE	None	None	None		
WETTING %	100	100	100		
ANODE APPEARANCE		[redacted]			
PELLET DEFORMATION - DIA.	9.9 mils	--	7.2 mils		8.0 mils

[redacted]

TABLE 86 - PARAMETER STUDY, PRESSURE SECTION
BATTERY AND CELL TEST

C - DENOTES CELL
B - DENOTES BATTERY

[redacted]

BATTERY OR CELL NO.	C	C	C		AVERAGE REMARKS
BIMETAL WEIGHT - GMS.	1.305	1.305	1.305		Bimetal #1
ACETATE DIP NUMBER	-	-	-		
TREATMENT	-	-	-		
DEB BLEND NO.	SA-3A	SA-3A	SA-3A		
DEB WEIGHT - GMS.	2.3785	2.3865	2.3840		
END HEAT PELLET WEIGHT-GMS.	-	-	-		
CELL HEAT PELLET WEIGHT-GMS.	-	-	-		
STACK PRESSURE	75# Constant Force	75# Constant Force	75# Constant Force		
TEMPERATURE °C	550	550	550		
CURRENT DRAIN ma./SQ. IN. @ V.	0.7 ma	0.7 ma	0.7 ma		
P. V.	2.86	2.84	2.84		2.86
2.50 V. - SECONDS	1200	2360	1160		1573
2.25 V. - SECONDS	1380	3990	1492		2287
2.00 V. - SECONDS	2400	4443	2117		2985
1.90 V. - SECONDS					
12.0 V. - SECONDS					
11.0 V. - SECONDS					
10.0 V. - SECONDS					
9.0 V. - SECONDS					
OCV. -					
ALLOY	125	110	100		112
NOISE	Noise in Trace up to 4 minutes	Noise at 40 sec.	Noise at 70 sec.		
ITTING %	100	100	100		100
ANODE APPEARANCE		[redacted]			
PELLET DEFORMATION - DIA.	34.2	42.0	38.2		38.1

[redacted]

TABLE 87 - PARAMETER STUDY, PRESSURE SECTION [redacted]
BATTERY AND CELL TEST

C - DENOTES CELL
B - DENOTES BATTERY

[redacted]

BATTERY OR CELL NO.	C	C	C		AVERAGE REMARKS
BIMETAL WEIGHT - GMS.	1.305	1.305	1.305		Bimetal #1
ACETATE DIP NUMBER	-	-	-		
TREATMENT	-	-	-		
DEB BLEND NO.	SA-3A	SA-3A	SA-3A		
DEB WEIGHT - GMS.	2.3600	2.3600	2.3815		
END HEAT PELLET WEIGHT-GMS.	-	-	-		
CELL HEAT PELLET WEIGHT-GMS.	-	-	-		
STACK PRESSURE	150#Constant Force	150#Constant Force	150#Constant Force		
TEMPERATURE °C	550	550	550		
CURRENT DRAIN ma./SQ. IN. @ V.	0.7 ma	0.7 ma	0.7 ma		
P. V.	2.83	2.83	2.83		2.83
2.50 V. - SECONDS	900	1035	1178		1038
2.25 V. - SECONDS	1128	1380	1672		1393
2.00 V. - SECONDS	1371	1599	1800		1590
1.90 V. - SECONDS					
12.0 V. - SECONDS					
11.0 V. - SECONDS					
10.0 V. - SECONDS					
9.0 V. - SECONDS					
OCV. -					
ALLOY	Neg.	3.0	5.0		4.0
NOISE	Up to 60 sec.	Up to 60 sec.	Up to 60 sec.		
WETTING %	100	100	100		100
NODE APPEARANCE					
PELLET DEFORMATION - DIA.	69.7	61.0	55.1		61.9

[redacted]

TABLE 88 - PARAMETER STUDY, PRESSURE SECTION [redacted]

BIMETAL NO. 1 T°C. 450

DEB LOT NO. SA-3C CURRENT DENSITY 200ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3890	1.3880	1.3876				1.3882
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	9.0	8.0	7.6				8.2

Date Pellets Vacuum Dried:

Peak Voltage	2.62	2.59	2.59				2.60
Time to 2.0 V. Sec.	490	435	370				432
Alloy, Count	95	98	96				96
Deformation, Mils.	8.0	2.2	3.9				4.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.56	2.56	2.56				2.56
120	2.55	2.51	2.50				2.52
180	2.52	2.48	2.48				2.49
240	2.51	2.47	2.47				2.48
300	2.48	2.43	2.42				2.44
360	2.46	2.38	2.33				2.39
420	2.39	2.08					2.16
480	2.18						
540							
600 O.C.V.	2.62	2.62	2.62				2.62
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 89 - PARAMETER STUDY. TEMPERATURE SECTION

BIMETAL NO. 1 T°C 500

DEB LOT NO. SA-3C CURRENT DENSITY 200 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3885	1.3873	1.3882				1.3880
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.5	7.3	8.2				8.0

Date Pellets Vacuum Dried:

Peak Voltage	2.63	2.63	2.65				2.64
Time to 2.0 V. Sec.	1067	1474	1265				1269
Alloy, Count	110	115	85				103
Deformation, Mils.	6.5	9.2	6.8				7.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.54	2.56	2.54				2.54
120	2.53	2.54	2.52				2.53
180	2.52	2.53	2.51				2.52
240	2.49	2.52	2.48				2.50
300	2.48	2.48	2.47				2.48
360	2.47	2.48	2.46				2.47
420	2.43	2.48	2.43				2.45
480	2.38	2.46	2.42				2.42
540	2.34	2.46	2.42				2.41
600	2.33	2.44	2.42				2.39
660	2.31	2.44	2.42				2.39
720	2.28	2.44	2.42				2.38
780	2.37	2.43	2.41				2.40
840	2.27	2.43	2.41				2.39
900	2.33	2.43	2.40				2.38
960	2.12	2.43	2.38				2.37
1020	2.33	2.42	2.36				2.37
1080		2.41	2.34				2.37
1140	Cell	2.39	2.30				2.35
1200	shorted	2.38	2.27				2.33
1260		2.38	2.05				2.22
1320		2.37					
1380		2.36					
1440		2.24					
1500							
O.C.V.	2.55	2.53	2.58				

[redacted]

TABLE 90 - PARAMETER STUDY, STANDARD PARAMETERS - SERIES 5

[redacted]

BIMETAL NO. 1 T °C 450

DEB LOT NO. SA-3C CURRENT DENSITY 597 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 300 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3876	1.3882	1.3880				1.3879
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.6	8.2	8.0				7.9

Date Pellets Vacuum Dried:

Peak Voltage	2.46	2.40	2.44				2.43
Time to 2.0 V. Sec.	81	87	84				84
Alloy, Count	4	6	12				7
Deformation, Mils.	16.6	Broken Pellet	12.0				9.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.22	2.23	2.03				2.16
120	1.65	1.72	1.65				1.67
180	1.48	1.50	1.47				1.48
240	1.32	1.35	1.37				1.37
300							
360 O.C.V.	2.55	2.55	2.55				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 91 - PARAMETER STUDY, STANDARD PARAMETERS - SERIES 6

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-3C CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 300 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3881	1.3880	1.3880				1.3880
Weight, gm.	2.3635	2.3459	2.3352				2.3482
Density - gms/cm^3							
Growth, mils.	8.1	8.0	8.0				8.0

Date Pellets Vacuum Dried:

Peak Voltage	2.80	2.83	2.83				2.82
Time to 2.0 V. Sec.	93	88	175				119
Alloy, Count	208	175	195				193
Deformation, Mils.	masked by alloy	112.0	92.0				102
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.18	2.08	2.16				
120			2.16				
180							
240							
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 92 - PARAMETER STUDY, ORIGINAL PARAMETER

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 3000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3864	1.3871	1.3873			1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	6.4	7.1	7.3			7.0

Date Pellets Vacuum Dried: 3-14-67

Peak Voltage	.45	.47	.53	.47			.48
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count							0
Deformation, Mils.	--	-3.6	-2.8	-2.7			-3.0
Wetting, %	50	30	40	20			35

	Voltage						
60 Seconds	.32	.37	.40	.38			.37
120	.20	.15	.25	.16			.19
180	.10	.08	.10	.10			.10
240	.05	.04	.08	.05			.06
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 93 - PARAMETER STUDY, PRESSURE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 3000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 25 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3878	1.3879				1.3878
Weight, gm.	2.3546	2.3556	2.3600				2.3567
Density - gms/cm^3							
Growth, mils.	7.7	7.8	7.9				7.8

Date Pellets Vacuum Dried:

Peak Voltage	1.25	1.30	1.25				1.27
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	21.8	24.3	23.4				23.2
Wetting, %	80	80	80				80

	Voltage						
60 Seconds Volts	.64	.70	.60				.65
120	.47	.45	.44				.45
180	.36	.25	.29				.30
240	.30	.28	.23				.27
300							
360							
420	2.23	2.20	2.22				2.22
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 94 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 3000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3871	1.3880	1.3880				1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.1	8.0	8.0				7.7

Date Pellets Vacuum Dried:

Peak Voltage	1.70	1.60	1.75				1.68
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	54.3	53.7	50.8				52.9
Wetting, %	85	85	85				85

		Voltage						
60 Seconds	Volts	.67	.88	.76				.74
120		.48	.50	.51				.50
180		.30	.32	.29				.30
240		.29	.28	.30				.29
300								
360								
420	O.C.V.	2.12	2.10	2.12				2.11
480								
540								
600								
660								
720								
780								
840								
900								
960								
1020								
1080								
1140								
1200								
1260								
1320								
1380								
1440								
1500								

[redacted]

[redacted]

TABLE 95 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 3000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 200 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3875	1.3879	1.3873				1.3876
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.5	7.9	7.3				7.6

Date Pellets Vacuum Dried:

Peak Voltage	1.95	2.02	2.01				1.99
Time to 2.0 V. Sec.	0	2 sec.	5 sec.				0
Alloy, Count	0	0	0				0
Deformation, Mils.	144.8	160.3	158.4				154.5
Wetting, %	90	90	90				90

	Voltage						
60 Seconds Volts	1.00	1.00	.96				.99
120	.36	.34	.37				.36
180	.39	.34	.39				.37
240	.27	.28	.28				.28
300							
360							
420	2.13	2.12	2.13				2.13
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 96 - PARAMETER STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 1500 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3896	1.3880	1.3879			1.3881
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	9.6	8.0	7.9			8.1

Date Pellets Vacuum Dried:

Peak Voltage	2.03	2.05	2.09	2.08			2.06
Time to 2.0 V. Sec.	15 sec	22 sec	34 sec	41 sec			28 sec
Alloy, Count	0	0	0	0			0
Deformation, Mils.	10.2	5.2	8.5	6.4			7.6
Wetting, %	80	80	80	80			80

		Voltage						
60 Seconds	Volts	1.85	1.90	1.99	2.01			1.94
120		.78	.86	.79	.96			.85
180		.78	.82	.84	.86			.83
240		.80	.72	.80	.82			.79
300								
360								
420	O.C.V.	2.48	2.42	2.40	2.40			2.43
480								
540								
600								
660								
720								
780								
840								
900								
960								
1020								
1080								
1140								
1200								
1260								
1320								
1380								
1440								
1500								

[redacted]

TABLE 97 - PARAMETER STUDY, CURRENT DENSITY [redacted]

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3880	1.3885	1.3875				1.3880
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.0	8.5	7.5				8.0

Date Pellets Vacuum Dried:

Peak Voltage	2.09	2.13	2.07				2.10
Time to 2.0 V. Sec.	36 sec	56 sec	36 sec				42.7 sec
Alloy, Count	0	0	0				0
Deformation, Mils.	7.9	7.2	6.6				7.2
Wetting, %	80	80	80				80

	Voltage						
60 Seconds Volts	2.02	2.12	2.05				2.06
120	1.20	1.15	1.28				1.21
180	1.00	.97	1.26				1.08
240	1.02	1.18	.87				1.02
300							
360							
420 O.C.V.	2.45	2.45	2.42				2.44
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 98 - PARAMETER STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 900 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3880	1.3882	1.3885				1.3882
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.0	8.2	8.5				8.2

Date Pellets Vacuum Dried:

Peak Voltage	2.14	2.22	2.18				2.27
Time to 2.0 V. Sec.	105"	95"	109"				103"
Alloy, Count	0	0	0				0
Deformation, Mils.	8.0	3.8	2.5				4.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.12	2.21	2.17				2.25
120	1.36	1.01	1.15				1.26
180	1.31	1.42	1.26				1.33
240	1.17	1.22	1.12				1.26
300							
360 O.C.	2.47	2.47	2.48				2.47
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 99 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 900 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 14 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3870	1.3874				1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	7.0	7.4				7.2

Date Pellets Vacuum Dried:

Peak Voltage	2.18	2.21	2.18				2.19
Time to 2.0 V. Sec.	89"	67"	77"				78"
Alloy, Count	12	15	16				14
Deformation, Mils.	1.8	3.0	4.1				3.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.18	2.13	2.18				2.16
120							
180	89 sec	67 sec	77 sec				78 sec
240							
300 O.C.	2.47	2.53	2.46				2.49
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 100 - PARAMETER STUDY, STANDARD PARAMETERS - SERIES 7

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 30 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3869	1.3872				1.3871
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	6.9	7.2				7.1

Date Pellets Vacuum Dried:

Peak Voltage	2.39	2.39	2.41				2.40
Time to 2.0 V. Sec.	98	87.5	81				89
Alloy, Count	58	61	58				59
Deformation, Mils.	24.8	23.0	18.2				22.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.26	2.23	2.25				2.25
120	1.75	1.40	2.10				1.75
180	1.45	1.65	1.66				1.59
240	1.43	1.46	1.56				1.48
300							
360 O.C.V.	2.48	2.48	2.47				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 101 - PARAMETER STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 1 T°C 500

DEB LOT NO. SA-4A CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 14 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3870	1.3881				1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	7.0	8.1				7.2

Date Pellets Vacuum Dried:

Peak Voltage	2.70	2.76	2.71				2.72
Time to 2.0 V. Sec.	2200	660	245				
Alloy, Count	159	150	210				173
Deformation, Mils.	20.7	23.0	13.9				19.2
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.57	2.72	2.72				
120	2.64	2.41	2.58				
180	2.27	2.44	2.64				
240	2.38	2.48	2.64				
300	2.52	2.51	2.66				
360	2.61	2.53	2.67				
420	2.63	2.54	2.67				
480	2.66	2.30	2.66				
540	2.67	2.32	2.66				
600	2.68	2.34	2.54				
660	2.68	2.32					
720	2.68	2.32					
780	2.05	2.28					
840	2.20	2.26					
900	2.22						
960	2.27						
1020	2.28	cell	cell				
1080	2.28	shorted	shorted			O.C.	2.90
1140	2.27						
1200	2.28						
1260	2.33						
1320	2.33						
1380	2.37						
1440							
1500	cell shorted						

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TABLE 1C2 - PARAMETER STUDY, TEMPERATURE SECTION

BIMETAL NO. 1 T°C 550

DEB LOT NO. SA-4A . CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 14 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3877	1.3877				1.3874
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	7.7	7.7				7.4

Date Pellets Vacuum Dried:

Peak Voltage	2.91	2.89	2.90				2.90
Time to 2.0 V. Sec.	215	490	420				455
Alloy, Count	204	225	209				213
Deformation, Mils.	25.1	28.4	29.8				27.8
Wetting, %	80	80	80				80

	Voltage						
60 Seconds	2.87	2.89	2.90				2.90
120	2.91	2.89	2.88				2.89
180	2.91	2.89	2.88				2.89
240		2.87	2.74				2.80
300		2.83	2.66				2.80
360	Cell	2.77	2.43				2.55
420	shorted	2.64	2.00				2.32
480		2.15					
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 103 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 550

DEB LOT NO. SA-4A CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3882	1.3879	1.3876	1.3876			
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.2	7.9	7.6	7.6			

Date Pellets Vacuum Dried:

Peak Voltage	2.77	2.76	2.65	2.75			2.73
Time to 2.0 V. Sec.	50	110	130	30			
Alloy, Count	38 mg.	72 mg.	22.8 mg.	5.1 mg.			34.5 mg.
Deformation, Mils.	7.5	14.3	17.8	10.8			12.6
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds							
120							
180							
240							
300							
360							
420							
480							
540							
600							
660							
720	Alloy on center mandrel Shorted at 50 seconds	Alloy on center mandrel Noise for 110 seconds	Alloy on center mandrel Noise for 130 seconds	Alloy on center mandrel Noise at 30 seconds			
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 104 - PARAMETER STUDY, PRESSURE SECTION

BIMETAL NO. 1 T°C 550

DEB LOT NO. SA-4A CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 25 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3881	1.3875	1.3875				1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.1	7.5	7.5				7.7

Date Pellets Vacuum Dried:

Peak Voltage	2.87	2.81	2.84				2.84
Time to 2.0 V. Sec.	260	155	706				
Alloy, Count	250	215	285				250
Deformation, Mils.	31.9	28.5	38.5				33.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.84	2.79	2.84				
120	2.80	2.74	2.81				
180	2.76		2.78				
240	2.74		2.78				
300			2.77				
360 O.C.	Cell	Cell	2.78				
420	shorted	shorted	2.76				
480			2.71				
540			2.61				
600			2.53				
660			2.28				
720							
780			Cell				
840			shorted				
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 105 - PARAMETER STUDY, STANDARD PARAMETERS - SERIES 8

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3869	1.3870	1.3865			1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.9	7.0	6.5			6.8

Date Pellets Vacuum Dried:

Peak Voltage	2.89	2.87	2.89	2.87			2.88
Time to 2.0 V. Sec.	24	28	22	28			25.5
Alloy, Count	315	340	426	380			365
Deformation, Mils.	113.4	143.6	141.5	132.7			132.8
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	.72*	.81*	1.18*	.73*			
120	1.22	1.48	1.58	1.01			
180	1.82	2.18	.85	1.50			
240	1.94	2.18	2.18	1.78			
300			2.12	1.88			
360			2.10	2.02			
420			2.07				
480			2.07				
540			2.07				
600			2.07				
660			2.08				
720			2.04				
780							
840							
900							
960							
1020							
1080							
1140							
1200	* "Saddles" in Voltage trace						
1260							
1320							
1380							
1440							
1500							

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TABLE 106 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1A CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3876	1.3882	1.3879				1.3879
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.6	8.2	7.9				7.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.22	2.22	2.24				2.23
Time to 2.0 V. Sec.	81.0 sec	84.0 sec	90.0 sec				85.0 sec
Alloy, Count	2	6	----				4
Deformation, Mils.	9.6	--	--				
Wetting, %	70-80	80	80				80

	Voltage						
60 Seconds	2.17	2.17	2.21				2.18
120	1.14	1.30	1.24				1.23
180	1.23	1.56	1.92				1.57
240	1.03	1.47	1.50				1.33
300							
360							
420 O.C.V.	2.45	2.41	2.40				2.42
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 107 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1A CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 3 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3879	1.3886	1.3881				1.3882
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.9	8.6	8.1				8.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.19	2.14	2.15				2.16
Time to 2.0 V. Sec.	88.0	75.0	70.0				77.7
Alloy, Count	--	--	2				
Deformation, Mils.	7.6	8.5	5.2				7.1
Wetting, %	80	80	80				80

	Voltage						
60 Seconds	2.19	2.12	2.13				2.15
120	1.87	1.48	1.84				1.73
180	1.45	1.28	1.28				1.34
240	1.43	1.29	1.25				1.32
300							
360							
420 O.C.V.	2.39	2.40	2.37				2.39
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 108 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 550°C

DEB LOT NO. SA-1A CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3881	1.3878				1.3879
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	8.1	7.8				7.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.63	2.75	2.73				2.74
Time to 2.0 V. Sec.	939	901	1040				960
Alloy, Count	37	18	20				25
Deformation, Mils.	--	93.4	--				
Wetting, %	90	95	95				95

	Voltage						
60 Seconds	2.56*	2.45*	2.64				
120	Noise	2.68	2.63				
180	2.56	2.67	2.61				
240	2.56	2.65	2.59		* Noise up to 60 sec.		
300	2.57	2.63	2.58				
360	2.53	2.63	2.57				
420	2.51	2.62	2.56				
480	2.43	2.59	2.52				
540	2.35	2.54	2.46				
600	2.23	2.35	2.39				
660	2.19	2.28	2.32				
720	2.18	2.23	2.24				
780	2.18	2.21	2.22				
840	2.16	2.18	2.21				
900	2.10	2.17	2.17				
960			2.13				
1020			2.06				
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 109 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 550°C

DEB LOT NO. SA-1A CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3879	1.3881	1.3880				1.3880
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.9	8.1	8.0				8.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.73	2.76	2.74				2.74
Time to 2.0 V. Sec.	1125	1114	1298				1179
Alloy, Count	18	35	24				26
Deformation, Mils.	100.1	--	109.4				104.8
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	2.68	2.68	2.65				2.67
120	2.64	2.65	2.63				2.64
180	2.62	2.62	2.62				2.62
240	2.60	2.58	2.61				2.60
300	2.59	2.54	2.59				2.56
360	2.58	2.51	2.58				2.56
420	2.57	2.48	2.57				2.54
480	2.54	2.45	2.53				2.51
540	2.50	2.39	2.48				2.46
600	2.45	2.34	2.42				2.40
660	2.37	2.26	2.38				2.34
720	2.28	2.21	2.33				2.27
780	2.23	2.20	2.28				2.24
840	2.21	2.19	2.24				2.21
900	2.19	2.18	2.23				2.20
960	2.17	2.17	2.22				2.19
1020	2.09	2.13	2.21				2.14
1080	2.03	2.04	2.18				2.07
1140			2.15				
1200			2.08				
1260			2.03				
1320							
1380							
1440							
1500							

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TABLE 110 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1C CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 30/15

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3877	1.3867	1.3863	1.3867		1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	7.7	6.7	6.3	6.7		6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.22	2.16	2.21	2.18	2.18		2.19
Time to 2.0 V. Sec.	76	42	71	45	57		58
Alloy, Count	0	0	0	0	0		0
Deformation, Mils.	16.7	13.3	16.5	16.6	17.5		16.1
Wetting, %	95	95	95	95	95		95

	Voltage						
60 Seconds	2.22	1.90	2.19	2.15	2.18		2.13
120	1.98	1.70	1.79	1.50	1.58		1.71
180	1.30	1.30	1.45	1.23	1.22		1.30
240	1.19	1.07	1.12	1.07	1.11		1.11
300							
360							
420 O.C.V.	2.50	2.50	2.52	2.50	2.50		2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 111 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1C CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 30/30

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3875	1.3873	1.3877			1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	7.5	7.3	7.7			7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	1.94	1.90	2.07	1.97			1.97
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	15.4	15.0	15.6	19.8			16.5
Wetting, %	95	95	95	95			95

	Voltage						
60 Seconds	1.75	1.63	1.80	1.80			1.75
120	1.80	1.79	1.95	1.81			1.84
180	1.44	1.50	1.43	1.36			1.43
240	1.62	1.56	1.41	1.32			1.48
300							
360							
420 O.C.V.	2.55	2.55	2.55	2.55			2.55
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 11 2 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1C CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 30/60

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3879	1.3860	1.3864	1.3872	1.3860	1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	7.9	6.0	6.4	7.2	6.0	6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	1.48	1.52	1.52	1.43	1.50	1.45	1.48
Time to 2.0 V. Sec.	0	0	0	0	0	0	0
Alloy, Count	0	0	0	0	0	0	0
Deformation, Mils.	22.4	2.06	31.4	24.7	23.7	25.6	24.7
Wetting, %	95	95	95	95	95	95	95

	Voltage						
60 Seconds	.60	.70	.79	.50	.54	.55	.61
120	.68	.82	.92	.79	.79	.85	.81
180	.67	.73	.96	.66	.67	.67	.73
240	.65	.73	.94	.67	.62	.64	.71
300							
360							
420 O.C.V.	2.60	2.60	2.60	2.55	2.60	2.55	2.58
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 11 3 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C. 600°C

DEB LOT NO. SA-1C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 30/15

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3879	1.3863	1.3879	1.3877	1.3879	1.3875
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	7.9	6.3	7.9	7.7	7.9	7.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.89	2.88	2.89	2.88	2.87	2.88
Time to 2.0 V. Sec.	500	432	588	411	572	424	488
Alloy, Count	147	118	139	128	147	128	135
Deformation, Mils.	111.6	136.7	120.2	115.7	112.4	112.6	118.2
Wetting, %	100	100	100	100	100	100	100

	Voltage						
60 Seconds	2.83	2.83	2.83	2.83	2.70	2.72	2.79
120	2.82	2.84	2.84	2.81	2.53	2.59	2.74
180	2.79	2.77	2.83	2.75	2.45	2.51	2.68
240	2.67	2.53	2.75	2.60	2.37	2.39	2.55
300	2.52	2.38	2.51	2.33	2.23	2.26	2.37
360	2.38	2.18	2.39	2.11	2.18	2.12	2.22
420	2.25	2.03	2.27		2.13	2.02	2.12
480	2.08		2.17		2.08		2.06
540			2.08		2.03		
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 114 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 30/30

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3875	1.3880	1.3872			1.3874
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	7.5	8.0	7.2			7.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.88	2.88	2.87			2.88
Time to 2.0 V. Sec.	610	746	608	668			658
Alloy, Count	127	135	146	119			132
Deformation, Mils.	127.6	123.6	127.0	130.1			127.1
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.86	2.88	2.87	2.85			2.87
120	2.77	2.88	2.79	2.80			2.81
180	2.75	2.87	2.77	2.79			2.80
240	2.67	2.83	2.71	2.75			2.74
300	2.58	2.80	2.55	2.68			2.65
360	2.52	2.70	2.48	2.60			2.58
420	2.43	2.55	2.37	2.50			2.46
480	2.30	2.48	2.25	2.40			2.36
540	2.10	2.35	2.13	2.25			2.21
600	2.03	2.32	2.02	2.11			2.12
660		2.18		2.02			
720		2.03					
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 115 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C. 600°C

DEB LOT NO. SA-1C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 30/60

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3860	1.3874	1.3869			1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.0	7.4	6.9			6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.87	2.88	2.85			2.87
Time to 2.0 V. Sec.	920	1206	1008	1027			1040
Alloy, Count	98	138	135	92			116
Deformation, Mils.	122.5	124.6	112.7	112.2			120.5
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.87	2.77	2.85	2.80			2.82
120	2.87	2.74	2.83	2.77			2.80
180	2.77	2.73	2.83	2.74			2.77
240	2.74	2.71	2.81	2.72			2.75
300	2.70	2.68	2.80	2.64			2.71
360	2.56	2.66	2.78	2.53			2.63
420	2.44	2.63	2.74	2.48			2.57
480	2.37	2.62	2.67	2.43			2.52
540	2.28	2.59	2.54	2.31			2.43
600	2.20	2.58	2.50	2.24			2.35
660	2.18	2.54	2.43	2.18			2.33
720	2.13	2.49	2.33	2.13			2.27
780	2.11	2.43	2.28	2.12			2.24
840	2.04	2.39	2.21	2.08			2.18
900	2.02	2.33	2.14	2.04			2.13
960		2.27	2.06	2.03			2.09
1020		2.18		2.01			2.05
1080		2.15					
1140		2.04					
1200		2.01					
1260							
1320							
1380							
1440							
1500							

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TABLE 116 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 20/600

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3877	1.3877	1.3879	1.3873		1.3876
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	7.7	7.7	7.9	7.3		7.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.24	2.18	2.23	2.21	2.24		2.22
Time to 2.0 V. Sec.	56	60	46	49	50		54
Alloy, Count	0	0	0	0	0		0
Deformation, Mils.	40.6	23.2	25.3	18.2	21.6		25.8
Wetting, %	90	90	90	90	90		90

	Voltage						
60 Seconds	2.15	2.13	2.02	2.18	2.13		2.12
120	1.58	1.12	1.36	1.46	1.32		1.37
180	1.44	1.20	1.29	1.28	1.46		1.33
240	1.23	1.16	1.18	1.15	1.24		1.19
300							
360							
420 O.C.V.	2.48	2.50	2.50	2.50	2.49		
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 117 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/15

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3881	1.3876	1.3873				1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.1	7.6	7.3				7.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.23	2.23	2.23				2.23
Time to 2.0 V. Sec.	73	62	64				66
Alloy, Count	0	0	0				0
Deformation, Mils.	6.0	8.2	7.1				7.1
Wetting, %	Bowed 90	Bowed 90	Bowed 90				Bowed 90

	Voltage						
60 Seconds	2.14	2.12	2.14				2.13
120	1.58	1.51	1.59				1.56
180	1.36	1.29	1.20				1.28
240	1.14	1.10	1.08				1.11
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 118 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1

T°C. 450°C

DEB LOT NO. SA-1D

CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/30

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3862	1.3876				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	6.2	7.6				7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.22	2.24	2.23				2.23
Time to 2.0 V. Sec.	54	58	64				62
Alloy, Count	0	0	0				0
Deformation, Mils.	6.1	Broken Pellet	7.2				6.6
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.17	2.15	2.17				2.16
120	1.68	1.65	1.40				1.58
180	1.30	1.36	1.31				1.32
240	1.15	1.11	1.17				1.14
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 119 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/60

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3879	1.3876	1.3877	1.3877			1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.9	7.6	7.7	7.7			7.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.23	2.24	2.23	2.21			2.23
Time to 2.0 V. Sec.	72	60	64	61			64
Alloy, Count	0	0	0	0			0
Deformation, Mils.	8.8	7.9	7.7	6.8			7.8
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	2.17	2.17	2.16	2.15			2.16
120	1.62	1.53	1.50	1.59			1.56
180	1.54	1.32	1.44	1.40			1.43
240	1.15	1.18	1.10	1.13			1.14
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 120 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 35/15

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3874	1.3876	1.3883			1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	7.4	7.6	8.3			7.7

Date Pellets Vacuum Dried: _____

Peak Voltage	1.18	1.17	1.25	1.15			1.19
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	21.8	29.3	22.6	20.6			23.6
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	.29	.41	.32	.47			.37
120	.63	.67	.59	.59			.62
180	.52	.64	.51	.48			.54
240	.79	1.14	.63	.66			.81
300							
360							
420 O.C.V.	2.53	2.50	2.53	2.50			2.52
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 121 ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 35/30

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3875	1.3872	1.3873			1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	7.5	7.2	7.3			7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	1.15	1.18	1.15	1.18			1.17
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	29.9	28.7	29.2	32.6			30.1
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	.27	.20	.26	.26			.25
120	.65	.68	.67	.63			.63
180	.48	.52	.49	.53			.51
240	.62	.46	.53	.45			.52
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 122 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 50/1.5

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3870	1.3876	1.3876	1.3874		1.3874
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	7.0	7.6	7.6	7.4		7.4

Date Pellets Vacuum Dried: _____

Peak Voltage	1.28	1.38	1.33	1.26	1.28		1.31
Time to 2.0 V. Sec.	0	0	0	0	0		0
Alloy, Count	0	0	0	0	0		0
Deformation, Mils.	30.3	26.8	28.9	25.3	28.2		27.9
Wetting, %	90	90	90	90	90		90

	Voltage						
60 Seconds	1.18	1.05	1.04	1.04	1.01		1.06
120	.90	.91	.85	1.14	1.02		.96
180	.85	.83	.89	1.13	1.26		.99
240	.79	.77	.97	1.04	1.03		.92
300							
360							
420 O.C.V.	2.52	2.50	2.50	2.50	2.50		2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 123 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 50/1.5

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3862	1.3869	1.3865	1.3873	1.3875	1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	6.2	6.9	6.5	7.3	7.4	7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	1.03	1.03	1.02	1.03	1.03	1.03	1.03
Time to 2.0 V. Sec.	0	0	0	0	0	0	0
Alloy, Count	0	0	0	0	0	0	0
Deformation, Mils.	25.6	28.9	23.7	24.4	20.3	25.4	24.7
Wetting, %	90	90	90	90	90	90	90

	Voltage						
60 Seconds	.88	.91	.85	.88	.91	.76	.87
120	.56	.60	.59	.90	.62	.67	.66
180	.53	.59	.54	1.16	.59	.67	.68
240	.52	.59	.52	.98	.59	.67	.65
300							
360							
420 O.C.V.	2.50	2.52	2.50	2.50	2.50	2.50	2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 124 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C. 600°C

DEB LOT NO. SA-1D CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/600

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3876	1.3880	1.3882			1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	7.6	8.0	8.2			7.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.83	2.83	2.82	2.84			2.83
Time to 2.0 V. Sec.	22	20	17	19			19.5
Alloy, Count	233	216	222	197			217
Deformation, Mils.	112.0	111.3	116.4	122.4			113.0
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	1.12	1.26	1.01	1.18			1.14
120	.98	1.06	.80	.98			.96
180	.89	1.05	.76	.98			.92
240	.83	1.11	.91	1.14			1.00
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 125 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1D CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/30

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3880	1.3881	1.3874	1.3877			1.3878
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.0	8.1	7.4	7.7			7.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.84	2.85	2.85	2.86			2.85
Time to 2.0 V. Sec.	48	55	50	53			51.5
Alloy, Count	135	146	110	146			134
Deformation, Mils.	127.5	130.6	105.6	101.6			116.3
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	1.90	1.90	1.86	1.94			1.90
120	1.53	1.62	1.58	1.67			1.60
180	1.46	1.51	1.47	1.58			1.51
240	1.47	1.53	1.48	1.66			1.54
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 126 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1D CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/2.5

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3883	1.3880	1.3887	1.3882	1.3887		1.3884
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.3	8.0	8.7	8.2	8.7		8.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.83	2.86	2.86	2.86	2.80		2.84
Time to 2.0 V. Sec.	381	434	476	480	430		440.2
Alloy, Count	105	68	116	102	68		92
Deformation, Mils.	133.3	137.6	Cracked Pellet	139.2	134.3		136.1
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.78	2.83	2.73	2.82	2.51		2.73
120	2.76	2.81	2.58	2.82	2.50		2.69
180	2.66	2.79	2.47	2.79	2.31		2.60
240	2.44	2.73	2.32	2.77	2.27		2.51
300	2.28	2.56	2.21	2.56	2.20		2.36
360	2.06	2.38	2.13	2.42	2.15		2.23
420		2.05	2.06	2.11	2.02		2.05
480				2.06			
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 127 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1E CURRENT DENSITY (856 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3869	1.3872				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	6.9	7.2				7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.33	2.32	2.33				2.33
Time to 2.0 V. Sec.	124	124	129				125.7
Alloy, Count	0	0	5				2
Deformation, Mils.	12.0	13.0	12.0				12.3
Wetting, %	Bowed 70	Bowed 70	Bowed 70				Bowed 70

	Voltage						
60 Seconds	2.28	2.28	2.29				2.28
120	2.06	2.08	2.08				2.07
180	2.03	1.82	1.82				1.89
240	1.64	1.52	1.54				1.57
300							
360							
420 O.C.V.	2.52	2.52	2.53				2.52
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 128 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1E CURRENT DENSITY (856 ma./sq. in.)

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3868	1.3872				1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	6.8	7.2				7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.32	2.32	2.29				2.31
Time to 2.0 V. Sec.	117	115	114				115.3
Alloy, Count	1	0	0				0
Deformation, Mils.	8.3	5.8	6.7				6.9
Wetting, %	Bowed 70	Bowed 70	Bowed 70				Bowed 70

	Voltage						
60 Seconds	2.24	2.22	2.22				2.23
120	1.60	1.82	1.50				1.64
180	1.38	1.60	1.58				1.51
240	1.26	1.38	1.22				1.29
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 129 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C. 450°C

DEB LOT NO. SA-1E CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 30/5

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3872	1.3873	1.3877			1.3871
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	7.2	7.3	7.7			7.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.14	2.18	2.18	2.21			2.18
Time to 2.0 V. Sec.	49	49	55	51			51
Alloy, Count	0	0	0	0			0
Deformation, Mils.	3.9	3.8	7.3	Pellet Cracked			5.0
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	2.08	2.13	2.13	2.20			2.14
120	1.39	1.44	1.41	1.40			1.41
180	1.38	1.42	1.50	1.25			1.39
240	1.17	1.22	1.24	1.14			1.19
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 130 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1E CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 35/60

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3871	1.3867	1.3869				1.3869
Weight, gm.	2.3658	2.3716	2.3720				2.3698
Density - gms/cm^3							
Growth, mils.	7.1	6.7	6.9				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.03	1.50	1.50				1.68
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	16.2	15.8	22.1				18.0
Wetting, %	Sl. Bow. 70	Sl. Bow. 70	Sl. Bow. 70				Sl. Bow. 70

	Voltage						
60 Seconds	.50	.25	.25				.33
120	.55	.60	.65				.60
180	.95	.83	.58				.79
240	2.03	1.50	1.50				1.68
300							
360 O.C.V.	2.58	2.55	2.55				2.56
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 131 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C. 450°C

DEB LOT NO. SA-1E CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 35/180

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3870	1.3871				1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	7.0	7.1				6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	1.45	1.38	1.48				1.44
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	28.6	23.9	26.1				26.2
Wetting, %	70	70	70				70

	Voltage						
60 Seconds	.20	.25	.25				.23
120	.58	.65	.60				.61
180	.60	.55	.53				.56
240	1.10	.53	.53				.72
300							
360							
420 O.C.V.	2.55	2.55	2.55				2.55
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 132 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1E CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3870	1.3869				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	7.0	6.9				7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	1.98	1.75	1.80				1.84
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	7.4	6.2	7.1				6.9
Wetting, %	Bowed 70	Bowed 70	Bowed 70				Bowed 70

	Voltage						
60 Seconds	.40	.65	.90				.65
120	.70	.83	.83				.80
180	1.98	1.75	1.70				1.81
240	1.70	1.55	1.80				1.68
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 133 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1E CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 50.10

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3869	1.3865				1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	6.9	6.5				6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	1.35	1.33	1.40				1.36
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	17.4	21.4	17.7				18.8
Wetting, %	Sl. Bow. 70	Sl. Bow. 70	Sl. Bow. 70				Sl. Bow. 70

	Voltage						
60 Seconds	.18	.30	.33				.27
120	.45	.75	.63				.61
180	.57	.55	.58				.57
240	.50	.68	.80				.66
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 134 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3874	1.3872				1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	7.4	7.2				7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.88	2.86				2.87
Time to 2.0 V. Sec.	17	16	16.5				16.5
Alloy, Count	248	268	295				270
Deformation, Mils.	136.0	128.6	masked				132.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	1.04	1.05	1.00				1.03
120	.81	.79	.81				.80
180	.67	.71	.75				.71
240	.62	.67	.70				.66
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 135 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3865	1.3864				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.5	6.4				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.87	2.87				2.87
Time to 2.0 V. Sec.	58	22	33				38
Alloy, Count	208	230	200				213
Deformation, Mils.	132.6	137.6	136.9				135.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	1.82	1.42	1.86				1.70
120	1.62	1.14	1.61				1.46
180	1.46	1.03	1.62				1.37
240	1.62	1.08	1.47				1.37
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 136 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/15

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3867	1.3867				1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	6.7	6.7				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.89	2.88	2.88				2.88
Time to 2.0 V. Sec.	370	367	387				375
Alloy, Count	296	233	287				272
Deformation, Mils.	127.6	116.6	masked by alloy				122.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.47	2.62	2.56				2.55
120	2.27	2.31	2.33				2.30
180	2.13	2.19	2.19				2.17
240	2.19	2.22	2.22				2.21
300	2.14	2.07	2.18				2.13
360	2.02	2.02	2.06				2.03
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 137 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/30

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3866	1.3877				1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.6	7.7				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.88	2.88				2.88
Time to 2.0 V. Sec.	445	421	431				432
Alloy, Count	226	238	243				236
Deformation, Mils.	119.4	118.8	110.7				116.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.64	2.83	2.87				2.78
120	2.56	2.81	2.86				2.74
180	2.51	2.72	2.80				2.68
240	2.38	2.50	2.70				2.53
300	2.28	2.27	2.51				2.35
360	2.19	2.18	2.30				2.22
420	2.06	2.01	2.10				2.06
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 138 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/60

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3863	1.3850	1.3869			1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.3	5.0	6.9			6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.87	2.87	2.87			2.87
Time to 2.0 V. Sec.	444	512	452	435			461
Alloy, Count	198	233	208	229			219
Deformation, Mils.	Masked by alloy						
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.78	2.68	2.72	2.76			2.74
120	2.63	2.63	2.67	2.64			2.64
180	2.58	2.62	2.59	2.62			2.60
240	2.39	2.58	2.38	2.43			2.45
300	2.23	2.37	2.27	2.33			2.27
360	2.12	2.26	2.12	2.22			2.18
420	2.03	2.12	2.04	2.05			2.06
480		2.03					
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 139 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C. 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 30/5

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3877	1.3875	1.3877			1.3874
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	7.7	7.5	7.7			7.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.88	2.88	2.86			2.88
Time to 2.0 V. Sec.	125	107	129	141			126
Alloy, Count	149	178	180	187			174
Deformation, Mils.	120.3	115.6	111.6	110.2			114.4
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.42	2.40	2.49	2.51			2.46
120	2.03	1.92	2.08	2.17			2.02
180	1.53	1.59	1.71	1.64			1.62
240	1.55	1.62	1.80	1.76			1.68
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 140 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/60

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3868	1.3872	1.3867				1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.8	7.2	6.7				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.85	2.85				2.86
Time to 2.0 V. Sec.	314	351	309				325
Alloy, Count	50	37	48				45
Deformation, Mils.	112.7	122.7	118.3				117.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.78	2.80	2.79				2.79
120	2.73	2.79	2.74				2.75
180	2.53	2.65	2.58				2.59
240	2.27	2.40	2.27				2.31
300	2.05	2.26	2.03				2.11
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 141 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/180

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3866	1.3872				1.3871
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	6.6	7.2				7.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.87	2.88				2.88
Time to 2.0 V. Sec.	890	687	541				706
Alloy, Count	105	102	135				113
Deformation, Mils.	121.6	132.2	128.6				127.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.84	2.78	2.84				
120	2.81	2.70	2.84				
180	2.78	2.63	2.82				
240	2.77	2.58	2.71				
300	2.74	2.54	2.61				
360	2.64	2.47	2.43				
420	2.62	2.42	2.33				
480	2.53	2.33	2.19				
540	2.50	2.22	2.01				
600	2.43	2.13					
660	2.38	2.04					
720	2.29						
780	2.17						
840	2.06						
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 142 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/300

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3872	1.3871				1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	7.2	7.1				7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.85	2.87	2.84				2.85
Time to 2.0 V. Sec.	275	335	325				312
Alloy, Count	50	78	65				64
Deformation, Mils.	103.4	108.7	112.8				108.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.79	2.82	2.74				2.78
120	2.79	2.82	2.73				2.78
180	2.48	2.58	2.50				2.52
240	2.21	2.38	2.37				2.32
300		2.14	2.10				2.08
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 143 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C. 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3875	1.3866	1.3873				1.3871
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.5	6.6	7.3				7.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.88	2.88				2.88
Time to 2.0 V. Sec.	816	738	971				842
Alloy, Count	135	148	162				148
Deformation, Mils.	143.0	138.6	132.6				138.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.83	2.87	2.84				2.85
120	2.79	2.86	2.81				2.82
180	2.77	2.84	2.81				2.81
240	2.75	2.75	2.79				2.76
300	2.74	2.78	2.76				2.76
360	2.64	2.76	2.68				2.69
420	2.58	2.65	2.59				2.61
480	2.54	2.52	2.56				2.54
540	2.47	2.41	2.53				2.47
600	2.38	2.33	2.47				2.39
660	2.29	2.21	2.39				2.30
720	2.17	2.06	2.32				2.18
780	2.11		2.23				2.11
840			2.16				2.05
900			2.08				
960			2.02				
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 144 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C. 600°C

DEB LOT NO. SA-1E CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/10

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3867	1.3874				1.3869
Weight, gm.	2.3740	2.3732	2.3783				2.3752
Density - gms/cm^3							
Growth, mils.	6.7	6.7	7.4				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.87	2.83				2.86
Time to 2.0 V. Sec.	705	636	495				612
Alloy, Count	65	52	40				52
Deformation, Mils.	129.3	119.1	116.5				121.6
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.87	2.73	2.83				2.81
120	2.84	2.73	2.81				2.79
180	2.83	2.73	2.58				2.71
240	2.81	2.69	2.33				2.61
300	2.76	2.58	2.28				2.54
360	2.62	2.51	2.18				2.44
420	2.53	2.46	2.10				2.36
480	2.47	2.38	2.04				2.30
540	2.37	2.20					2.20
600	2.23	2.07					2.07
660	2.09						
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 145 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 22.5/60

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3860	1.3863				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	6.0	6.3				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.33	2.33	2.33				2.33
Time to 2.0 V. Sec.	120	125	127				124
Alloy, Count	0	0	0				0
Deformation, Mils.	20.2	21.6	21.1				21.0
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.28	2.30	2.30				2.29
120	2.02	2.11	2.13				2.09
180	1.90	1.90	1.98				1.93
240	1.63	1.74	1.58				1.65
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 146 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 22.5/80

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3868	1.3870				1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.8	7.0				6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.32	2.32	2.33				2.32
Time to 2.0 V. Sec.	104	103	106				104
Alloy, Count	0	0	0				0
Deformation, Mils.	26.7	25.1	22.4				24.7
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.29	2.28	2.29				2.29
120	1.56	1.40	1.38				1.45
180	1.86	1.88	1.86				1.87
240	1.67	1.53	1.53				1.58
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 147 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 22.5/300

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3871	1.3860				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	7.1	6.0				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.28	2.28	2.31				2.29
Time to 2.0 V. Sec.	96	90	91				92
Alloy, Count	0	0	0				0
Deformation, Mils.	24.6	21.6	20.1				22.1
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.27	2.25	2.28				2.27
120	1.58	1.68	1.62				1.63
180	1.96	2.04	1.90				1.97
240	1.62	1.63	1.56				1.60
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 148 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 22.5/420

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3859	1.3865	1.3864	1.3862			1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.9	6.5	6.4	6.2			6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.31	2.28	2.28	2.29			2.29
Time to 2.0 V. Sec.	66	62	61	63			63
Alloy, Count	0	0	0	0			0
Deformation, Mils.	18.2	27.9	18.2	21.0			21.3
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	2.28	2.27	2.27	2.27			2.27
120	1.34	1.14	1.26	1.32			1.27
180	1.47	1.32	1.43	1.51			1.43
240	1.33	1.36	1.38	1.32			1.35
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 149 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 22.5/600

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3863	1.3867	1.3863	1.3864	1.3867	1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	6.3	6.7	6.3	6.4	6.7	6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.22	2.23	2.27	2.28	2.27	2.28	2.26
Time to 2.0 V. Sec.	98	89	67	67	65	66	75
Alloy, Count	0	0	0	0	0	0	0
Deformation, Mils.	18.7	22.1	19.6	21.4	20.1	13.2	19.2
Wetting, %	90	90	90	90	90	90	90

	Voltage						
60 Seconds	2.18	2.22	2.27	2.28	2.27	2.27	2.25
120	2.08	1.99	1.30	1.38	1.25	1.32	1.55
180	1.20	1.26	1.47	1.48	1.54	1.60	1.43
240	1.06	1.04	1.31	1.32	1.50	1.46	1.28
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50	2.50	2.50	2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 150 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/180

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3870	1.3867	1.3869	1.3872	1.3869	1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	7.0	6.7	6.9	7.2	6.9	6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.18	2.26	2.27	2.27	2.24	2.24	2.24
Time to 2.0 V. Sec.	76	61	87	96	88	84	82
Alloy, Count	0	0	0	0	0	0	0
Deformation, Mils.	27.2	30.6	38.3	42.0	28.4	24.6	31.9
Wetting, %	90	90	90	90	90	90	90

	Voltage						
60 Seconds	2.18	2.23	2.26	2.27	2.33	2.23	2.23
120	2.03	1.42	1.84	2.00	1.96	1.80	1.84
180	1.26	1.32	1.34	1.27	1.31	1.20	1.28
240	1.06	1.27	1.16	1.25	1.02	1.11	1.21
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50	2.50	2.50	2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 151 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3879	1.3872	1.3870	1.3863			1.3871
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.9	7.2	7.0	6.3			7.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.17	2.23	2.16	2.18			2.19
Time to 2.0 V. Sec.	93	11	84	94			96
Alloy, Count	0	0	0	0			0
Deformation, Mils.	20.1	24.6	32.2	27.0			26.0
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	2.15	2.22	2.16	2.18			2.18
120	2.09	2.17	2.06	2.14			2.12
180	1.92	1.76	1.70	1.78			1.79
240	1.50	1.42	1.46	1.38			1.44
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 152 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 27.5/15

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3871	1.3865	1.3869				1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.1	6.5	6.9				6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.28	2.31	2.31				2.30
Time to 2.0 V. Sec.	104	96	100				100
Alloy, Count	0	0	0				0
Deformation, Mils.	24.7	24.3	26.6				25.2
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.27	2.27	2.28				2.27
120	1.60	1.60	1.60				1.60
180	1.90	2.07	2.02				2.00
240	1.76	1.75	1.76				1.76
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 153 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 27.5/30

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3863	1.3864	1.3867			1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	6.3	6.4	6.7			6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.31	2.27	2.20	2.25			2.26
Time to 2.0 V. Sec.	84	94	129	107			104
Alloy, Count	0	0	0	0			0
Deformation, Mils.	19.2	18.2	27.6	24.2			22.3
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	2.31	2.27	2.18	2.23			2.25
120	1.90	1.80	2.16	2.18			2.01
180	1.84	1.76	2.00	1.77			1.84
240	1.70	1.62	1.44	1.45			1.55
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 154 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 27.5/60

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3860	1.3867	1.3869			1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	6.0	6.7	6.9			6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.22	2.22	2.10	2.11			2.16
Time to 2.0 V. Sec.	105	86	23	29			61
Alloy, Count	0	0	0	0			0
Deformation, Mils.	19.6	20.1	13.1	14.2			16.8
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	2.21	2.22	2.08	2.10			2.15
120	2.14	2.09	1.70	1.70			1.91
180	1.54	1.42	1.43	1.36			1.44
240	1.10	1.10	1.28	1.25			1.18
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 155 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 27.5/180

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3863	1.3858	1.3862	1.3862		1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	6.3	5.8	6.2	6.2		6.1

Date Pellets Vacuum Dried: _____

Peak Voltage	1.71	1.55	1.80	1.50	1.50		1.61
Time to 2.0 V. Sec.	0	0	0	0	0		0
Alloy, Count	0	0	0	0	0		0
Deformation, Mils.	21.4	24.6	32.3	33.3	23.6		27.0
Wetting, %	90	90	90	90	90		90

	Voltage						
60 Seconds	.56	.14	.90	.48	.48		.51
120	.91	.36	.84	.77	.71		.72
180	1.38	.45	1.02	.68	.67		.84
240	1.50	.48	1.40	1.00	1.00		1.08
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50	2.50		2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 156 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 32.5/60

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3864	1.3870	1.3867	1.3862		1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.4	7.0	6.7	6.2		6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	1.93	1.90	2.01	2.03	1.92		1.96
Time to 2.0 V. Sec.	0	0	2	4	0		0
Alloy, Count	0	0	0	0	0		0
Deformation, Mils.	23.2	23.3	31.9	30.7	33.9		28.6
Wetting, %	90	90	90	90	90		90

	Voltage						
60 Seconds	.85	.42	.68	.82	.79		.71
120	1.38	1.23	1.30	1.67	1.85		1.49
180	1.82	1.64	1.42	1.83	1.76		1.69
240	1.80	1.80	1.98	1.86	1.62		1.81
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50	2.50		
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 157 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 32.5/180

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3875	1.3865	1.3867				1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.5	6.5	6.7				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	1.80	1.79	1.83				1.81
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	27.6	30.1	30.2				29.3
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	.90	1.20	1.00				1.03
120	1.62	1.53	1.23				1.46
180	1.69	1.60	1.38				1.56
240	1.72	1.72	1.80				1.75
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 158 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 32.5/300

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3858	1.3860	1.3863			1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	5.8	6.0	6.3			6.1

Date Pellets Vacuum Dried: _____

Peak Voltage	1.89	1.91	2.01	1.91			1.93
Time to 2.0 V. Sec.	0	0	2	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	36.1	35.0	38.9	40.6			37.7
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	1.40	1.10	1.10	.60			1.05
120	1.62	1.76	1.51	1.06			1.49
180	1.69	1.68	1.89	1.22			1.62
240	1.86	1.72	1.98	1.90			1.87
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 159 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1F CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 32.5/420

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3869	1.3860				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.9	6.0				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	1.98	1.90	1.89				1.92
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	37.7	34.6	36.4				36.2
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	1.42	1.02	1.20				1.21
120	1.89	1.79	1.42				1.70
180	1.82	1.76	1.62				1.73
240	1.79	1.74	1.84				1.79
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 160 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 22.5/60

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3867	1.3862	1.3861	1.3863		1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	6.7	6.2	6.1	6.3		6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.85	2.86	2.85	2.87	2.88		2.86
Time to 2.0 V. Sec.	112	81	108	95	102		100
Alloy, Count	107	133	128	123	132		125
Deformation, Mils.	133.2	136.0	130.7	135.6	138.6		134.8
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.50	2.25	2.33	2.26	2.25		2.32
120	1.90	1.48	1.85	1.80	1.90		1.79
180	1.86	1.64	1.72	1.66	1.70		1.72
240	1.65	1.48	1.67	1.43	1.46		1.54
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 161 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 22.5/180

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3867	1.3862	1.3869			1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.7	6.2	6.9			6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.86	2.86	2.86	2.86			2.86
Time to 2.0 V. Sec.	226	232	212	246			229
Alloy, Count	126	105	115	112			115
Deformation, Mils.	112.4	101.6	107.6	109.4			107.8
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.62	2.52	2.59	2.13			2.47
120	2.38	2.12	2.37	2.08			2.24
180	2.10	2.06	2.11	2.11			2.10
240	1.91	1.92	1.84	2.02			1.92
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 162 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 22.5/300

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3872	1.3863	1.3869			1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	7.2	6.3	6.9			6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.86	2.84	2.85			2.86
Time to 2.0 V. Sec.	257	345	273	242			279
Alloy, Count	132	146	136	162			144
Deformation, Mils.	119.6	113.3	114.0	112.4			114.8
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.57	2.70	2.53	2.49			2.57
120	2.36	2.57	2.33	2.30			2.39
180	2.20	2.43	2.19	2.17			2.25
240	2.04	2.25	2.08	2.01			2.10
300		2.08					
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 163 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1

T°C 600°C

DEB LOT NO. SA-1F

CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 22.5/420

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3872	1.3876	1.3866	1.3867		1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	7.2	7.6	6.6	6.7		7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.87	2.87	2.87	2.87		2.87
Time to 2.0 V. Sec.	372	441	401	688	651		511
Alloy, Count	102	125	97	68	98		98
Deformation, Mils.	123.1	127.0	128.0	124.9	119.4		124.5
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.56	2.56	2.71	2.76	2.75		2.67
120	2.43	2.53	2.64	2.67	2.66		2.59
180	2.39	2.50	2.56	2.56	2.56		2.51
240	2.29	2.40	2.38	2.43	2.41		2.38
300	2.13	2.26	2.18	2.33	2.25		2.23
360	2.02	2.18	2.04	2.27	2.10		2.12
420		2.03		2.19	2.08		2.06
480				2.17	2.11		2.06
540				2.11	2.08		
600				2.08	2.03		
660				2.04			
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 164 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 22.5/600

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3869	1.3874	1.3860	1.3870		1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	6.9	7.4	6.0	7.0		6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.87	2.87	2.88	2.87		2.87
Time to 2.0 V. Sec.	387	253	1151	596	413		253 - 1151
Alloy, Count	87	82	64	58	112		81
Deformation, Mils.	101.6	123.2	108.3	116.3	117.8		113.4
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.64	2.65	2.82	2.83	2.79		
120	2.50	2.49	2.72	2.75	2.70		
180	2.42	2.30	2.57	2.65	2.55		
240	2.29	2.06	2.54	2.56	2.35		
300	2.17		2.42	2.52	2.16		
360	2.04		2.33	2.39	2.07		
420			2.22	2.32			
480			2.17	2.16			
540			2.13	2.03			
600			2.13				
660			2.12				
720			2.13				
780			2.11				
840			2.08				
900			2.07				
960			2.04				
1020			2.03				
1080			2.03				
1140			2.01				
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 165 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/180

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3876	1.3871	1.3867	1.3870			1.3871
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.6	7.1	6.7	7.0			7.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.88	2.86	2.88			2.88
Time to 2.0 V. Sec.	335	456	468	445			426
Alloy, Count	115	119	141	118			123
Deformation, Mils.	129.3	124.6	120.3	105.7			120.0
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.78	2.71	2.78	2.79			2.77
120	2.66	2.60	2.75	2.73			2.69
180	2.54	2.51	2.63	2.63			2.59
240	2.38	2.41	2.48	2.46			2.43
300	2.08	2.24	2.34	2.24			2.23
360		2.16	2.16	2.08			2.10
420		2.06	2.05				2.03
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 166 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C. 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3862	1.3850	1.3860			1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	6.2	5.0	6.0			6.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.88	2.88	2.88			2.88
Time to 2.0 V. Sec.	574	359	597	530			515
Alloy, Count	115	92	57	62			83
Deformation, Mils.	108.1	114.8	114.6	106.0			108.8
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.73	2.81	2.81	2.83			2.80
120	2.61	2.72	2.73	2.82			2.72
180	2.51	2.57	2.66	2.73			2.62
240	2.39	2.39	2.54	2.63			2.49
300	2.24	2.18	2.46	2.53			2.35
360	2.13		2.30	2.42			2.21
420	2.08		2.20	2.25			2.13
480	2.04		2.13	2.06			2.06
540			2.07				
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 167 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 27.5/15

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3863	1.3859				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.3	5.9				6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.88	2.88				2.88
Time to 2.0 V. Sec.	271	261	234				255
Alloy, Count	92	125	92				103
Deformation, Mils.	126.7	136.4	127.6				130.2
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.67	2.78	2.72				2.72
120	2.49	2.59	2.57				2.55
180	2.37	2.33	2.37				2.36
240	2.07	2.08	1.92				2.02
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 168 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 27.5/30

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3862	1.3863				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.2	6.3				6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.88	2.88				2.88
Time to 2.0 V. Sec.	495	338	449				427
Alloy, Count	141	170	162				158
Deformation, Mils.	121.6	123.2	115.6				120.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.83	2.81	2.82				2.82
120	2.79	2.76	2.72				2.76
180	2.73	2.66	2.60				2.66
240	2.51	2.33	2.37				2.40
300	2.38	2.03	2.18				2.20
360	2.17		2.09				2.09
420	2.08		2.02				2.03
480	2.03						
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 169 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 27.5/60

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3879	1.3882	1.3872	1.3864		1.3875
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	7.9	8.2	7.2	6.4		7.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.87	2.87	2.88	2.83		2.87
Time to 2.0 V. Sec.	528	472	346	483	513		468
Alloy, Count	115	153	186	143	215		162
Deformation, Mils.	110.5	122.1	113.6	118.3	114.2		115.7
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.81	2.82	2.76	2.78	2.81		2.80
120	2.76	2.79	2.65	2.68	2.78		2.73
180	2.60	2.74	2.53	2.56	2.73		2.63
240	2.53	2.61	2.35	2.48	2.55		2.50
300	2.48	2.47	2.17	2.36	2.51		2.40
360	2.33	2.32		2.18	2.38		2.24
420	2.22	2.09		2.05	2.25		2.12
480	2.10				2.08		
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 170 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 27.5/180

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3882	1.3862	1.3886			1.3874
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	8.2	6.2	8.6			7.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.88	2.87	2.87			2.87
Time to 2.0 V. Sec.	667	407	537	706			579
Alloy, Count	152	127	50	85			104
Deformation, Mils.	96.4	103.2	138.1	127.2			116.2
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.81	2.81	2.81	2.84			2.82
120	2.77	2.68	2.76	2.76			2.74
180	2.65	2.52	2.72	2.75			2.66
240	2.40	2.45	2.65	2.75			2.56
300	2.31	2.37	2.53	2.68			2.47
360	2.16		2.37	2.54			2.27
420	2.13		2.28	2.40			2.20
480	2.08		2.09	2.31			2.13
540	2.08			2.21			2.07
600	2.03			2.13			
660	2.02			2.06			
720							
780							
840	Noise 10 sec. to 40 sec.	Noise 10 to 30 sec.	Noise 10 to 40 sec.	Noise 10 to 30 sec.			Noise 10 to 35 sec.
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 171 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 32.5/60

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3862	1.3862	1.3860			1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	6.2	6.2	6.0			6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.86	2.89	2.89	2.88			2.88
Time to 2.0 V. Sec.	375	672	541	400			497
Alloy, Count	73	107	97	102			95
Deformation, Mils.	122.1	116.1	98.7	113.6			112.6
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.81	2.83	2.83	2.74			2.80
120	2.72	2.83	2.82	2.72			2.77
180	2.62	2.78	2.78	2.61			2.70
240	2.43	2.68	2.74	2.53			2.60
300	2.23	2.56	2.62	2.33			2.44
360	2.05	2.49	2.45	2.08			2.27
420		2.43	2.27				2.18
480		2.36	2.13				2.12
540		2.26	2.01				
600		2.13					
660		2.03					
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 172 · ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 32.5/180

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3860	1.3883				1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	6.0	8.3				7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.85	2.85	2.86				2.85
Time to 2.0 V. Sec.	899	950	1067				972
Alloy, Count	93	72	51				72
Deformation, Mils.	128.6	114.6	100.2				114.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.75	2.78	2.84				2.79
120	2.63	2.68	2.84				2.72
180	2.57	2.58	2.81				2.65
240	2.53	2.57	2.75				2.62
300	2.49	2.51	2.62				2.54
360	2.42	2.38	2.53				2.44
420	2.37	2.29	2.46				2.37
480	2.31	2.27	2.37				2.32
540	2.26	2.24	2.31				2.27
600	2.21	2.21	2.23				2.22
660	2.18	2.19	2.21				2.19
720	2.09	2.16	2.18				2.14
780	2.07	2.13	2.13				2.11
840	2.04	2.11	2.10				2.08
900		2.06	2.07				2.03
960			2.04				2.01
1020			2.03				
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 173 - ACETATE-COATED-ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 32.5/300

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3880	1.3862	1.3869	1.3877		1.3871
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	8.0	6.2	6.9	7.7		7.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.86	2.88	2.86	2.84		2.86
Time to 2.0 V. Sec.	847	551	558	708	713		675
Alloy, Count	49	87	71	58	77		68
Deformation, Mils.	127.0	126.6	128.8	216.1	114.2		124.5
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.84	2.80	2.83	2.84	2.82		2.83
120	2.81	2.79	2.79	2.79	2.83		2.80
180	2.78	2.69	2.74	2.71	2.78		2.74
240	2.69	2.54	2.68	2.55	2.73		2.64
300	2.59	2.49	2.57	2.53	2.64		2.56
360	2.53	2.36	2.44	2.26	2.51		2.42
420	2.42	2.25	2.31	2.19	2.41		2.32
480	2.31	2.14	2.13	2.18	2.33		2.22
540	2.24	2.03	2.03	2.16	2.27		2.15
600	2.21			2.16	2.16		2.11
660	2.16			2.18	2.08		2.08
720	2.11						
780	2.05						
840	2.02						
900		Noise 16 to 25 sec.					
960							
1020							
1080	Noise 20 to 35 sec.						
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 174 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1F CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 32.5/420

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3863	1.3883	1.3872			1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	6.3	8.3	7.2			7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.86	2.86	2.87	2.87			2.87
Time to 2.0 V. Sec.	732	662	859	843			774
Alloy, Count	52	47	92	31			56
Deformation, Mils.	100.6	114.7	127.1	133.3			118.9
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.84	2.82	2.83	2.83			2.83
120	2.84	2.78	2.82	2.82			2.82
180	2.75	2.72	2.77	2.76			2.75
240	2.74	2.60	2.68	2.71			2.68
300	2.56	2.54	2.58	2.58			2.57
360	2.44	2.46	2.52	2.51			2.48
420	2.39	2.33	2.43	2.42			2.39
480	2.28	2.21	2.36	2.38			2.31
540	2.18	2.14	2.29	2.33			2.24
600	2.09	2.11	2.23	2.25			2.17
660	2.03	2.01	2.18	2.18			2.10
720			2.13	2.08			2.05
780			2.08	2.03			2.05
840			2.02	2.01			
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 175 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3861	1.3966	1.3865				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.1	6.6	6.5				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.33	2.34	2.31				2.33
Time to 2.0 V. Sec.	137	112	139				129
Alloy, Count	0	0	0				0
Deformation, Mils.	14.0	12.1	13.7				13.3
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.28	2.28	2.28				2.28
120	2.21	1.99	2.20				2.13
180	1.80	2.08	1.60				1.83
240	1.79	1.75	1.84				1.79
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 176 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/15

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3863	1.3862				1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	6.3	6.2				6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.29	2.29	2.29				2.29
Time to 2.0 V. Sec.	108	98	118				111
Alloy, Count	0	0	0				0
Deformation, Mils.	13.6	12.6	11.6				12.6
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.23	2.25	2.25				2.24
120	2.00	1.34	2.13				1.82
180	1.79	1.82	1.86				1.82
240	1.38	1.53	1.42				1.44
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 177 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C. 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/30

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3856	1.3875	1.3861				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.6	7.5	6.1				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.29	2.31	2.31				2.30
Time to 2.0 V. Sec.	133	131	144				136
Alloy, Count	0	0	0				0
Deformation, Mils.	15.5	13.3	12.1				13.6
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.28	2.28	2.28				2.28
120	2.18	2.19	2.21				2.19
180	1.80	1.70	1.70				1.73
240	1.83	1.68	1.67				1.73
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 178 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/60 - .4% HNO3

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3865	1.3866				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.5	6.6				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.28	2.28	2.28				2.28
Time to 2.0 V. Sec.	114	100	101				105
Alloy, Count	0	0	0				0
Deformation, Mils.	13.2	12.7	10.0				12.0
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.27	2.27	2.27				2.27
120	2.13	1.93	1.40				1.82
180	1.70	1.72	1.74				1.72
240	1.42	1.50	1.48				1.47
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 179 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3862	1.3866				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.2	6.6				6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.21	2.19	2.19				2.20
Time to 2.0 V. Sec.	98	83	118				96
Alloy, Count	0	0	0				0
Deformation, Mils.	14.0	21.4	13.5				16.3
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.21	2.19	2.18				2.19
120	2.08	2.09	2.13				2.10
180	1.64	1.63	1.72				1.66
240	1.24	1.24	1.29				1.26
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 180 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/420

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3871	1.3871	1.3867				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.1	7.1	6.7				7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.13	2.08	2.13				2.11
Time to 2.0 V. Sec.	111	85	105				100
Alloy, Count	0	0	0				0
Deformation, Mils.	22.3	21.7	23.4				22.5
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	1.50	1.15	1.15				1.27
120	2.09	2.06	2.11				2.09
180	2.00	1.95	1.90				1.95
240	1.42	1.38	1.35				1.38
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 181 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/600

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3863	1.3860				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.3	6.0				6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	1.50	1.88	1.83				1.74
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	29.1	30.3	23.7				27.7
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	.10	.20	.18				.16
120	.59	1.00	.85				.81
180	.69	1.88	1.50				1.36
240	1.22	1.85	1.75				1.61
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 182 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 30/60

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3874	1.3859				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	7.4	5.9				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.18	2.21	2.20				2.20
Time to 2.0 V. Sec.	100	81	115				99
Alloy, Count	0	0	0				0
Deformation, Mils.	12.5	11.1	10.9				11.5
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.18	2.20	2.18				2.19
120	2.11	2.11	2.08				2.10
180	1.80	1.64	1.58				1.67
240	1.42	1.34	1.30				1.35
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 183 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C. 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 32.5/420

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3868	1.3863				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.8	6.3				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	1.56	1.81	1.40				1.59
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	30.0	26.4	29.2				28.5
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	.30	.20	.16				.22
120	.71	.72	.50				.64
180	.83	.96	.59				.79
240	1.56	1.74	1.10				1.48
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 184 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3855	1.3860	1.3863				1.3859
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.5	6.0	6.3				5.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.14	2.11	2.09				2.11
Time to 2.0 V. Sec.	90	64	73				77
Alloy, Count	0	0	0				0
Deformation, Mils.	32.7	28.6	23.8				28.4
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	2.00	1.00	1.25				1.42
120	2.07	2.06	2.06				2.06
180	1.70	1.67	1.86				1.74
240	1.30	1.30	1.40				1.33
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 185 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3867	1.3860				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	6.7	6.0				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.07	2.11	2.11				2.10
Time to 2.0 V. Sec.	73	101	100				91
Alloy, Count	0	0	0				0
Deformation, Mils.	5.1	4.4	7.1				5.5
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	2.07	2.07	2.09				2.08
120	1.50	1.94	1.88				1.77
180	1.60	1.87	1.80				1.76
240	1.47	1.57	1.55				1.53
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 186 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT 25/30

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3850	1.3861	1.3865				1.3858
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.0	6.1	6.5				5.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.06	2.06	2.07				2.06
Time to 2.0 V. Sec.	67	77	75				73
Alloy, Count	0	0	0				0
Deformation, Mils.	8.6	8.9	9.3				8.9
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	2.06	2.03	2.05				2.04
120	1.50	1.60	1.40				1.50
180	1.46	1.45	1.48				1.46
240	1.24	1.26	1.27				1.25
300							
360							
420							
480 O.C.	2.50	2.50	2.50				
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 187 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3861	1.3866				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.1	6.6				6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	1.93	1.48	1.46				1.62
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	15.1	16.1	13.4				14.9
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	1.83	1.45	1.35				1.54
120	1.70	1.48	1.35				1.51
180	1.26	1.33	1.19				1.26
240	1.19	1.25	1.18				1.21
300							
360							
420 O.C.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 188 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT 25/420

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3865	1.3863				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	6.5	6.3				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	1.40	1.33	1.72				1.48
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	15.8	14.4	19.3				16.5
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	.93	1.33	1.02				1.09
120	.68	.83	.57				.69
180	.92	.88	.68				.82
240	1.40	1.10	.85				1.11
300							
360							
420 O.C.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 189 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450°C

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/600

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3875	1.3861				1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	7.5	6.1				6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	1.45	1.23	1.13				1.27
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	21.6	18.5	20.0				20.0
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	.15	.10	.15				.13
120	.40	.10	.30				.27
180	.44	.18	.30				.31
240	.68	.20	.58				.48
300							
360							
420	2.55	2.50	2.50				2.52
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 190 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT 30/60

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3865	1.3869				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.5	6.9				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	1.33	1.50	1.28				1.37
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	13.0	17.9	9.6				13.5
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	1.22	.63	1.03				.96
120	.80	.55	.78				.71
180	.73	.58	.87				.73
240	1.30	1.50	1.28				1.37
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 191 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT 32.5/420

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3876	1.3862				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	7.6	6.2				7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	1.28	1.20	1.23				1.24
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	23.3	21.1	22.2				22.2
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	20	10	16				15
120	30	20	26				25
180	42	34	37				38
240	68	54	41				54
300							
360							
420 O.C.	250	250	250				250
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 192 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450

DEB LOT NO. SA-1G CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3869	1.3866				1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	6.9	6.6				6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	1.83	1.63	1.38				1.61
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	12.7	14.1	13.2				13.3
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	1.60	.85	1.00				1.15
120	1.38	.83	.87				1.03
180	.86	.88	.69				.81
240	.80	1.55	.80				1.05
300							
360							
420 o.c.	250	250	250				250
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 193 - ACETATE-COATED ANODE STUDY [redacted]

BIMETAL NO. 2 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT 25/150 .4% HNO3

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3890	1.3847	1.3872				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	9.0	4.7	7.2				7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.19	2.14	2.19				2.17
Time to 2.0 V. Sec.	62	57	71				63
Alloy, Count	0	2	0				0
Deformation, Mils.	9.7	14.1	12.7				12.2
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.19	2.14	2.19				2.17
120	1.25	1.70	1.70				1.55
180	1.38	1.36	1.56				1.43
240	1.43	1.24	1.06				1.24
300							
360							
420 O.C.	250	250	250				250
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 194 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT 25/30

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3860	1.3857				1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.0	5.7				6.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.19	2.19	2.18				2.19
Time to 2.0 V. Sec.	106	107	107				107
Alloy, Count	0	0	0				0
Deformation, Mils.	3.0	4.0	2.6				3.2
Wetting, %	80	80	80				80

	Voltage						
60 Seconds	2.13	2.14	2.14				2.14
120	1.59	1.66	1.70				1.65
180	1.86	1.76	1.86				1.83
240	1.70	1.48	1.56				1.57
300							
360							
420 O.C.	250	250	250				250
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 195 - ACCETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT 25/60

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3856	1.3862	1.3859				1.3859
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.6	6.2	5.9				5.9

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.17	2.18	2.19				2.18
Time to 2.0 V. Sec.	18-89	18-116	17-126				94
Alloy, Count	0	0	0				0
Deformation, Mils.	8.9	14.3	7.7				11.5
Wetting, %	80	80	80				80

	Voltage						
60 Seconds	2.08	2.16	2.16				2.13
120	1.83	1.98	2.04				1.95
180	1.65	1.79	1.62				1.69
240	1.53	1.56	1.64				1.58
300							
360							
420 O.C.	250	250	250				250
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 196 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT 25/150 .4% HNO3

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3860	1.3872	1.3862			1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	6.0	7.2	6.2			6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.13	2.14	2.16	2.13			2.14
Time to 2.0 V. Sec.	20	38	46	43			37
Alloy, Count	0	0	0	0			0
Deformation, Mils.	8.1	8.4	7.6	7.8			8.0
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	2.03	2.13	2.08	2.07			2.08
120	1.35	1.42	1.68	1.64			1.52
180	1.19	1.41	1.35	1.56			1.38
240	1.22	1.21	1.20	1.32			1.24
300							
360							
420							
480 O.C.V.	2.50	2.50	2.50	2.50			
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 197 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3861	1.3860	1.3866			1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	6.1	6.0	6.6			6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.87	2.92	2.87			2.89
Time to 2.0 V. Sec.	242	239	305	226			253
Alloy, Count	47	56	58	60			55
Deformation, Mils.	100.2	102.2	107.3	102.6			103.1
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.63	2.44	2.68	2.56			2.58
120	2.45	2.26	2.54	2.32			2.39
180	2.22	2.09	2.38	2.14			2.21
240	2.01	1.99	2.18	1.98			2.04
300			2.02				
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 198 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/15

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3850	1.3861	1.3867				1.3859
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.0	6.1	6.7				5.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.86	2.88				2.87
Time to 2.0 V. Sec.	476	488	384				449
Alloy, Count	45	48	59				51
Deformation, Mils.	110.3	113.7	112.9				112.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.69	2.82	2.43				2.65
120	2.53	2.70	2.21				2.48
180	2.45	2.58	2.19				2.41
240	2.33	2.49	2.09				2.30
300	2.26	2.31	2.04				2.20
360	2.19	2.18	2.01				2.13
420	2.11	2.09					2.07
480		2.03					
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 199 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C. 600°C

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/30

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3861	1.3862				1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	6.1	6.2				6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.89	2.89	2.89				2.89
Time to 2.0 V. Sec.	712	735	797				748
Alloy, Count	50	65	57				57
Deformation, Mils.	105.2	120.9	115.6				113.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.78	2.84	2.80				2.81
120	2.73	2.79	2.79				2.77
180	2.72	2.78	2.77				2.76
240	2.68	2.68	2.73				2.70
300	2.48	2.33	2.61				2.47
360	2.38	2.30	2.49				2.39
420	2.29	2.23	2.31				2.28
480	2.19	2.09	2.24				2.17
540	2.12	2.08	2.18				2.13
600	2.06	2.09	2.12				2.09
660	2.02	2.08	2.09				2.06
720		2.03	2.06				2.02
780			2.04				
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 200 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3862	1.3863	1.3862			1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.2	6.3	6.2			6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.86	2.92	2.91	2.92			2.90
Time to 2.0 V. Sec.	646	633	592	620			623
Alloy, Count	42	56	44	41			46
Deformation, Mils.	119.7	124.4	112.2	110.6			116.7
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.74	2.86	2.71	2.86			2.79
120	2.69	2.86	2.73	2.86			2.79
180	2.63	2.86	2.62	2.83			2.74
240	2.54	2.79	2.49	2.68			2.63
300	2.44	2.54	2.39	2.51			2.47
360	2.38	2.48	2.30	2.43			2.40
420	2.33	2.38	2.22	2.29			2.31
480	2.23	2.31	2.12	2.19			2.21
540	2.17	2.18	2.05	2.11			2.13
600	2.08	2.09		2.04			2.07
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 201 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/420

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3861	1.3866	1.3869				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.1	6.6	6.9				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.91	2.93	2.93				2.92
Time to 2.0 V. Sec.	615	694	645				651
Alloy, Count	44	34	29				36
Deformation, Mils.	128.0	127.6	137.3				131.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.82	2.83	2.86				2.84
120	2.69	2.81	2.88				2.79
180	2.57	2.78	2.86				2.74
240	2.53	2.69	2.83				2.68
300	2.43	2.58	2.59				2.53
360	2.33	2.48	2.44				2.42
420	2.24	2.38	2.39				2.34
480	2.17	2.28	2.27				2.24
540	2.08	2.17	2.18				2.14
600	2.02	2.09	2.09				2.07
660		2.03					
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 202 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/600

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3862	1.3866				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.2	6.6				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.93	2.93				2.91
Time to 2.0 V. Sec.	570	547	613				577
Alloy, Count	32	29	33				31
Deformation, Mils.	129.4	126.4	132.6				129.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.71	2.84	2.84				2.80
120	2.64	2.86	2.82				2.77
180	2.56	2.81	2.75				2.71
240	2.51	2.64	2.59				2.58
300	2.43	2.53	2.53				2.50
360	2.34	2.42	2.38				2.38
420	2.25	2.21	2.21				2.22
480	2.14	2.12	2.14				2.13
540	2.03	2.03	2.11				2.06
600			2.02				
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 203 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 30/60

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3868	1.3861	1.3867				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.8	6.1	6.7				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.91	2.92	2.92				2.92
Time to 2.0 V. Sec.	799	796	804				800
Alloy, Count	48	59	53				53
Deformation, Mils.	122.0	114.1	129.2				121.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.89	2.86	2.88				2.88
120	2.83	2.81	2.88				2.84
180	2.69	2.74	2.88				2.77
240	2.58	2.67	2.87				2.71
300	2.56	2.55	2.83				2.65
360	2.44	2.47	2.59				2.50
420	2.39	2.42	2.49				2.43
480	2.32	2.37	2.38				2.36
540	2.24	2.31	2.27				2.27
600	2.18	2.24	2.18				2.20
660	2.10	2.23	2.12				2.15
720	2.04	2.08	2.09				2.07
780	2.03	2.03	2.03				2.03
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 204 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 32.5/420

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3862	1.3863				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.2	6.3				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.91	2.88	2.88				2.89
Time to 2.0 V. Sec.	719	671	701				697
Alloy, Count	49	33	28				37
Deformation, Mils.	117.9	124.3	129.2				123.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.87	2.86	2.84				2.86
120	2.87	2.84	2.83				2.85
180	2.87	2.79	2.78				2.81
240	2.84	2.68	2.72				2.75
300	2.79	2.64	2.59				2.67
360	2.59	2.62	2.55				2.59
420	2.52	2.47	2.46				2.48
480	2.39	2.39	2.39				2.39
540	2.31	2.28	2.28				2.29
600	2.18	2.18	2.17				2.18
660	2.06	2.01	2.08				2.05
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 205 - ACETATE-COATED ANODE STUDY: SPOT CHECK SECTION

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3859	1.3861				1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	5.9	6.1				6.1

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.90	2.92	2.92				2.91
Time to 2.0 V. Sec.	597	790	672				686
Alloy, Count	58	61	68				62
Deformation, Mils.	114.6	120.4	126.7				120.6
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.68	2.88	2.86				2.81
120	2.57	2.88	2.84				2.76
180	2.52	2.86	2.83				2.74
240	2.47	2.82	2.78				2.69
300	2.39	2.78	2.68				2.62
360	2.32	2.53	2.54				2.46
420	2.23	2.44	2.46				2.38
480	2.18	2.33	2.38				2.30
540	2.14	2.20	2.21				2.18
600		2.13	2.14				2.09
660		2.09					2.03
720		2.04					
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 206 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3858	1.3867	1.3854	1.3866			1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.8	6.7	5.4	6.6			6.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.92	2.92	2.91	2.89			2.91
Time to 2.0 V. Sec.	236	221	256	265			245
Alloy, Count	79	97	92	91			90
Deformation, Mils.	122.2	119.7	110.3	114.2			116.6
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.62	2.73	2.86	2.83			2.76
120	2.18	2.24	2.67	2.69			2.45
180	2.08	2.15	2.40	2.51			2.29
240	1.90	1.88	2.04	2.18			2.01
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 207 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 25/30

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3859	1.3863				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	5.9	6.3				6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.91	2.89	2.89				2.90
Time to 2.0 V. Sec.	358	351	342				350
Alloy, Count	148	119	121				129
Deformation, Mils.	masked		133.6				133.6
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.88	2.81	2.74				2.81
120	2.74	2.63	2.52				2.63
180	2.58	2.38	2.33				2.43
240	2.27	2.13	2.12				2.17
300	2.04	2.07	2.02				2.04
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 208 ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 25/150 .4% HNO3

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3863	1.3854				1.3860
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	6.3	5.4				6.0

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.92	2.93	2.92				2.92
Time to 2.0 V. Sec.	597	592	515				568
Alloy, Count	77	71	87				78
Deformation, Mils.	129.7	130.7	117.8				126.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.83	2.89	2.86				2.86
120	2.88	2.89	2.73				2.83
180	2.88	2.88	2.65				2.80
240	2.83	2.87	2.52				2.74
300	2.74	2.83	2.25				2.61
360	2.48	2.73	2.17				2.46
420	2.37	2.39	2.03				2.26
480	2.24	2.24	2.02				2.17
540	2.14	2.12					2.09
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 209 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3861	1.3862				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.1	6.2				6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.92	2.93	2.91				2.92
Time to 2.0 V. Sec.	554	584	500				546
Alloy, Count	88	72	65				75
Deformation, Mils.	119.4	116.3	118.7				118.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.78	2.86	2.82				2.82
120	2.79	2.86	2.78				2.81
180	2.69	2.84	2.66				2.73
240	2.49	2.63	2.53				2.55
300	2.40	2.53	2.33				2.42
360	2.31	2.39	2.18				2.29
420	2.15	2.39	2.18				2.29
480	2.15	2.31	2.10				2.19
540	2.09	2.16	2.03				2.09
600	2.01	2.05					2.02
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 210 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 25/300 .4% HNO3

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3850	1.3862				1.3858
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	5.0	6.2				5.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.91	2.92	2.92				2.92
Time to 2.0 V. Sec.	580	559	564				568
Alloy, Count	28	56	69				51
Deformation, Mils.	119.3	115.4	124.6				119.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.84	2.84	2.88				2.85
120	2.86	2.83	2.83				2.84
180	2.84	2.78	2.73				2.78
240	2.76	2.68	2.64				2.69
300	2.56	2.38	2.44				2.46
360	2.41	2.23	2.20				2.28
420	2.31	2.14	2.15				2.20
480	2.18	2.08	2.09				2.12
540	2.08	2.02	2.03				2.04
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 211 - ACETATE-COATED ANODE STUDY [redacted]

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 25/420

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3867	1.3862				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.7	6.2				1.3865

Date Pellets Vacuum Dried: _____

Peak Voltage	2.89	2.91	2.89				2.90
Time to 2.0 V. Sec.	546	560	535				547
Alloy, Count	59	51	48				53
Deformation, Mils.	129.3	144.1	137.6				137.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.88	2.83	2.86				2.86
120	2.88	2.79	2.80				2.82
180	2.78	2.76	2.74				2.76
240	2.68	2.67	2.65				2.67
300	2.55	2.50	2.48				2.51
360	2.32	2.38	2.30				2.33
420	2.27	2.25	2.20				2.24
480	2.10	2.11	2.10				2.10
540	2.01	2.05					2.02
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 212 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 25/600

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3863	1.3867				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	6.3	6.7				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.91	2.91	2.91				2.91
Time to 2.0 V. Sec.	624	669	642				645
Alloy, Count	39	38	30				36
Deformation, Mils.	128.2	149.3	142.6				140.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.84	2.88	2.87				2.86
120	2.78	2.78	2.80				2.79
180	2.64	2.68	2.70				2.77
240	2.54	2.62	2.55				2.57
300	2.40	2.58	2.41				2.46
360	2.34	2.48	2.31				2.38
420	2.21	2.38	2.19				2.26
480	2.13	2.25	2.14				2.17
540	2.08	2.19	2.10				2.12
600	2.02	2.12	2.04				2.07
660		2.02					
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 213 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 30/60

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3865	1.3869				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.5	6.9				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.91	2.91	2.91				2.91
Time to 2.0 V. Sec.	575	602	555				577
Alloy, Count	67	89	71				76
Deformation, Mils.	134.2	126.2	120.3				126.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.88	2.86	2.87				2.87
120	2.87	2.84	2.85				2.85
180	2.83	2.77	2.80				2.80
240	2.78	2.60	2.65				2.68
300	2.69	2.55	2.59				2.61
360	2.51	2.42	2.49				2.47
420	2.34	2.33	2.31				2.33
480	2.19	2.20	2.19				2.19
540	2.13	2.15	2.08				2.12
600		2.01					
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 214 - ACETATE-COATED ANODE STUDY [redacted]

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 32.5/420

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3861	1.3868				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	6.1	6.8				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.88	2.87				2.88
Time to 2.0 V. Sec.	586	494	572				547
Alloy, Count	10	10	22				11
Deformation, Mils.	117.3	124.6	138.9				126.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.84	2.83	2.84				2.84
120	2.81	2.81	2.79				2.80
180	2.69	2.66	2.67				2.67
240	2.68	2.58	2.60				2.62
300	2.66	2.54	2.52				2.57
360	2.58	2.49	2.49				2.52
420	2.47	2.13	2.28				2.29
480	2.20		2.14				2.11
540	2.07		2.06				2.04
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 215 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1G CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3867	1.3861				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	6.7	6.1				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.91	2.91	2.91				2.91
Time to 2.0 V. Sec.	743	984	763				830
Alloy, Count	80	65	79				75
Deformation, Mils.	130.6	124.3	132.6				129.2
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.89	2.90	2.88				2.89
120	2.88	2.86	2.86				2.87
180	2.82	2.84	2.84				2.83
240	2.69	2.83	2.74				2.75
300	2.61	2.76	2.69				2.69
360	2.59	2.72	2.62				2.64
420	2.57	2.68	2.58				2.61
480	2.54	2.61	2.55				2.57
540	2.49	2.57	2.50				2.52
600	2.42	2.51	2.46				2.46
660	2.29	2.41	2.26				2.32
720	2.09	2.36	2.10				2.18
780		2.31					2.10
840		2.26					
900		2.13					
960		2.04					
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 216 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 600

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma/sq. in.

ACETATE COAT 25/150 .4 HNO3

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3861	1.3857				1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.1	5.7				6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.93	2.93	2.93				2.93
Time to 2.0 V. Sec.	1067	1248	1051				1122
Alloy, Count	59	48	37				49
Deformation, Mils.	109.3	114.1	105.2				110.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.88	2.87	2.84				2.86
120	2.87	2.87	2.83				2.86
180	2.87	2.87	2.79				2.84
240	2.84	2.84	2.73				2.80
300	2.74	2.83	2.59				2.72
360	2.67	2.79	2.53				2.66
420	2.53	2.68	2.47				2.56
480	2.44	2.44	2.38				2.42
540	2.43	2.38	2.36				2.39
600	2.39	2.34	2.25				2.33
660	2.32	2.29	2.23				2.28
720	2.29	2.24	2.19				2.24
780	2.24	2.18	2.16				2.19
840	2.18	2.16	2.13				2.16
900	2.14	2.13	2.09				2.12
960	2.09	2.18	2.03				2.10
1020	2.03	2.13	2.02				2.06
1080		2.09					2.03
1140		2.04					
1200		2.02					
1260							
1320							
1380							
1440							
1500							

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TABLE 217 - ACETATE-COATED-ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3871	1.3870				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	7.1	7.0				7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.28	2.27	2.28				2.28
Time to 2.0 V. Sec.	92	87	92				90
Alloy, Count	0	0	0				0
Deformation, Mils.	5.2	7.3	13.0				8.5
Wetting, %	Sl.Bowed 90	Sl.Bowed 90	Sl.Bowed 90				Sl. Bowed 90

	Voltage						
60 Seconds	2.17	2.19	2.18				2.18
120	1.44	1.52	1.42				1.46
180	1.76	1.81	1.41				1.66
240	1.86	1.71	1.62				1.73
300							
360 O.C.V.	2.50	2.50	2.50				2.50
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 218 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3859	1.3861	1.3865				1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.9	6.1	6.5				6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.28	2.22	2.28				2.26
Time to 2.0 V. Sec.	103	99	98				100
Alloy, Count	0	0	1.0				0
Deformation, Mils.	4.6	13.8	9.6				9.3
Wetting, %	90	90	90				Sl. Bow 90

	Voltage						
60 Seconds	2.24	2.20	2.25				2.23
120	1.30	1.62	1.37				1.43
180	1.74	1.63	2.03				1.80
240	1.62	1.49	1.47				1.53
300							
360							
420 O.C.V.	2.48	2.48	2.50				2.49
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 219 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 20/600

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3859	1.3860				1.3860
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	5.9	6.0				6.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.18	2.22	2.22				2.21
Time to 2.0 V. Sec.	51	41	75				56
Alloy, Count	0	0	0				0
Deformation, Mils.	17.8	10.2	14.7				14.2
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.08	2.19	2.19				2.15
120	1.06	1.58	1.59				1.41
180	.84	1.27	1.11				1.07
240	.67	1.07	.91				.88
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 220 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 25/15

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3866	1.3861				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.6	6.1				6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.22	2.23	2.17				2.21
Time to 2.0 V. Sec.	52	46	63				54
Alloy, Count	0	0	0				0
Deformation, Mils.	7.0	9.5	7.0				7.8
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.14	2.15	2.17				2.15
120	1.56	1.62	1.38				1.52
180	1.36	1.44	1.14				1.31
240	1.17	1.30	1.10				1.19
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 221 - ACETATE COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 35/15

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3863	1.3862	1.3866			1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.3	6.2	6.6			6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.05	1.99	2.13	2.07			2.06
Time to 2.0 V. Sec.	36	0	52	40			32
Alloy, Count	0	0	0	0			0
Deformation, Mils.	14.2	22.2	19.3	22.1			19.5
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	.44	.54	.20	.26			.36
120	.74	.72	.59	.70			.69
180	1.86	1.74	2.00	1.96			1.89
240	1.71	1.59	1.94	1.94			1.80
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 222 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 35/30

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3857	1.3857	1.3857				1.3857
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.7	5.7	5.7				5.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.03	2.09	2.03				2.05
Time to 2.0 V. Sec.	24	30	17				24
Alloy, Count	0	0	0				0
Deformation, Mils.	21.2	18.2	26.5				22.0
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	.20	.20	.26				.22
120	.67	.72	.86				.75
180	1.80	2.05	1.82				1.89
240	1.95	1.94	1.86				1.92
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 223- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma/sq. in.

ACETATE COAT 35/60

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3856	1.3850	1.3862				1.3856
Weight, gm.	2.3410	2.3750	2.3756				2.3639
Density - gms/cm^3							
Growth, mils.	5.6	5.0	6.2				5.6

Date Pellets Vacuum Dried: _____ .

Peak Voltage	1.98	2.11	2.08				2.06
Time to 2.0 V. Sec.	0	58	38				32
Alloy, Count	0	0	0				0
Deformation, Mils.	12.0	Cracked Pellet	24.2				18.1
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	.35	.65	.45				.48
120	1.00	1.40	1.38				1.26
180	1.92	2.03	2.00				1.98
240	1.36	1.60	1.55				1.50
300							
360 O.C.V.	2.52	2.50	2.52				
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 224 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 35/180

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3860	1.3872	1.3872	1.3868	1.3958	1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	6.0	7.2	7.2	6.8	5.8	6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	1.76	1.46	1.80	1.98	1.93	1.54	1.75
Time to 2.0 V. Sec.	0	0	0	0	0	0	0
Alloy, Count	0	0	0	0	0	0	0
Deformation, Mils.	9.0	10.6	12.7	12.5	9.7	10.1	10.8
Wetting, %	Sl. Bow 90	Sl. Bow 90	Sl. Bow 90	Sl. Bow 90	Sl. Bow 90	Sl. Bow 90	Sl. Bow 90

	Voltage						
60 Seconds	.30	.40	.10	.18	.10	.13	.20
120	.46	.44	.44	.66	.42	.56	.50
180	.60	.66	.66	1.10	.55	1.20	.80
240	1.76	1.46	1.80	1.67	1.90	1.54	1.69
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 225- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 50/1.5

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3869	1.3865	1.3870	1.3862		1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	6.9	6.5	7.0	6.2		6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.21	2.13	2.21	2.21	2.14		2.18
Time to 2.0 V. Sec.	69	47	79	66	53		63
Alloy, Count	0	0	0	0	0		0
Deformation, Mils.	Pellet Cracked	44.2	37.8	Pellet Cracked	43.6		41.9
Wetting, %	90	90	90	90	90		90

	Voltage						
60 Seconds	2.18	2.11	2.18	2.18	2.14		2.16
120	1.62	1.62	1.74	1.80	1.60		1.68
180	1.49	2.02	1.50	1.58	1.74		1.67
240	1.48	1.62	1.56	1.51	1.66		1.57
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50	2.50		2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 226- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 50/2.5

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3860	1.3865	1.3868			1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.0	6.5	6.8			6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.02	2.16	2.05	2.04			2.07
Time to 2.0 V. Sec.	7	73	5	14			25
Alloy, Count	0	0	0	0			0
Deformation, Mils.	15.7	20.6	13.9	14.1			16.1
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	1.84	2.12	1.55	1.76			1.82
120	1.75	1.74	1.55	1.73			1.69
180	1.70	1.50	1.42	1.56			1.55
240	1.50	1.37	1.33	1.40			1.40
300							
360							
420 O.C.V.	2.50	2.48	2.48	2.48			
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 227 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3867	1.3857	1.3868			1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	6.9	5.7	6.8			6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	1.62	1.59	1.70	1.51			1.61
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	12.6	12.2	10.7	12.0			11.9
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	.85	.65	.84	.56			.73
120	1.45	.52	1.14	.53			.91
180	1.44	1.59	1.64	1.51			1.54
240	1.14	1.02	1.30	.90			1.09
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 228 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-2C CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 50/10

LBS. OF FORCE ON CELL 15

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3862	1.3871	1.3860	1.3860	1.3863	1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.2	7.1	6.0	6.0	6.3	6.3

Date Pellets Vacuum Dried: _____.

Peak Voltage	1.97	1.80	1.53	1.93	1.50	1.88	1.77
Time to 2.0 V. Sec.	0	0	0	0	0	0	0
Alloy, Count	0	0	0	0	0	0	0
Deformation, Mils.	12.6	8.8	15.6	18.7	11.7	18.7	14.4
Wetting, %	Sl.Bow 90	Sl.Bow 90	Sl.Bow 90	Sl.Bow 90	Sl.Bow 90	Sl.Bow 90	Sl.Bow 90

	Voltage						
60 Seconds	.19	.34	.26	.22	.36	.34	.29
120	.66	.58	.52	.56	.52	.54	.56
180	.88	1.62	.76	.64	1.26	1.66	1.14
240	1.97	1.61	1.51	1.70	1.38	1.55	1.74
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 229- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3872	1.3865				1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	7.2	6.5				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.85	2.87	2.83				2.85
Time to 2.0 V. Sec.	16	16	17				16.4
Alloy, Count	385	305	332				341
Deformation, Mils.	Masked by alloy						
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	.75	.80	.83				.79
120	.68	.44	.77				.63
180	.65	.48	.69				.61
240	.62	.42	.62				.55
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 230- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3869	1.3863				1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	6.9	6.3				6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.84	2.84	2.81				2.83
Time to 2.0 V. Sec.	33	39	31				34
Alloy, Count	165	184	143				164
Deformation, Mils.	113.5	109.2	113.6				112.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	1.54	1.60	1.35				1.50
120	1.00	1.12	.91				1.01
180	.92	.98	.81				.90
240	1.22	1.09	.93				1.08
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 231 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/600

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3857	1.3867	1.3866	1.3864		1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	5.7	6.7	6.6	6.4		6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.87	2.85	2.87	2.85		2.86
Time to 2.0 V. Sec.	17	14	17	26	21		19.0
Alloy, Count	285	286	224	206	213		243
Deformation, Mils.	---Masked by Alloy		---	---	---		
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	.80	.68	.98	1.21	1.01		.94
120	.61	.52	.74	.83	.79		.70
180	.54	.43	.74	.79	.69		.64
240	.53	.35	.80	.87	.71		.65
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 232- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/900

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3868	1.3864	1.3862	1.3859		1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.8	6.4	6.2	5.9		6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.86	2.84	2.84	2.84	2.85		2.85
Time to 2.0 V. Sec.	18	28	37	18	20		24.2
Alloy, Count	162	222	185	234	225		206
Deformation, Mils.	114.2	111.2	127.4	122.6	121.2		119.3
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	1.41	1.64	1.66	.92	.92		1.31
120	1.04	1.18	1.21	.74	.72		.92
180	1.03	1.12	1.02	.72	.74		.93
240	1.12	1.28	1.05	.68	.75		.98
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 233 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/30

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3851	1.3854	1.3866	1.3857			1.3857
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.1	5.4	6.6	5.7			5.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.84	2.83	2.86	2.87			2.85
Time to 2.0 V. Sec.	90	40	93	47			67.5
Alloy, Count	143	170	152	207			168
Deformation, Mils.	130.6	119.3	130.3	125.4			126.4
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.07	1.64	2.05	1.66			
120	1.66	1.22	1.66	1.16			1.43
180	1.41	1.07	1.36	.96			1.20
240	1.41	1.12	1.38	.87			1.20
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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234 - ACETATE-COATED ANODE STUDY

DIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/60

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3857	1.3861				1.3859
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	5.7	6.1				5.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.76	2.73	2.78				2.76
Time to 2.0 V. Sec.	372	392	364				376
Alloy, Count	32	35	50				39
Deformation, Mils.	149.0	149.3	144.8				147.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.72	2.77	2.75				2.75
120	2.63	2.65	2.67				2.65
180	2.47	2.44	2.38				2.43
240	2.25	2.27	2.23				2.25
300	2.14	2.13	2.12				2.13
360	2.03	2.03	2.02				2.03
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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235 - ACETATE-COATED ANODE STUDY

METAL NO. 1 T°C 600

DEB LOT NO. SA-26 CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/180

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3856	1.3862				1.3860
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	5.6	6.2				6.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.77	2.78	2.77				2.77
Time to 2.0 V. Sec.	358	370	337				355
Alloy, Count	40	35	30				35
Deformation, Mils.	121.3	122.2	128.6				122.4
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.76	2.77	2.76				2.76
120	2.66	2.68	2.68				2.67
180	2.38	2.40	2.41				2.40
240	2.19	2.28	2.20				2.22
300	2.10	2.13	2.13				2.12
360		2.02					
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 236- ACETATE-COATED STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/2.5

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3861	1.3860	1.3865			1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	6.1	6.0	6.5			6.3

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.86	2.86	2.87	2.87			2.87
Time to 2.0 V. Sec.	350	478	441	348			404
Alloy, Count	112	105	120	100			109
Deformation, Mils.	136.6	145.8	144.6	127.3			138.6
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.76	2.78	2.79	2.77			2.78
120	2.65	2.77	2.77	2.58			2.69
180	2.50	2.60	2.68	2.48			2.56
240	2.25	2.50	2.52	2.27			2.39
300	2.13	2.40	2.37	2.08			2.25
360		2.20	2.22				2.11
420		2.10	2.03				
480		2.00					
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 237 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3867	1.3869				1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	6.7	6.9				6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.78	2.83	2.83				2.81
Time to 2.0 V. Sec.	628	509	445				527
Alloy, Count	22	20	65				36
Deformation, Mils.	114.4	129.2	120.6				121.4
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.78	2.81	2.78				2.79
120	2.77	2.83	2.71				2.77
180	2.68	2.68	2.58				2.65
240	2.42	2.58	2.48				2.49
300	2.31	2.41	2.29				2.34
360	2.23	2.20	2.12				2.18
420	2.18	2.08	2.03				2.10
480	2.11	2.03					2.05
540	2.03						
600	2.01						
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 238 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-2C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/10

LBS. OF FORCE ON CELL 50

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3856	1.3863				1.3860
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	5.6	6.3				6.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.83	2.87	2.83				2.84
Time to 2.0 V. Sec.	643	670	579				631
Alloy, Count	70	95	83				83
Deformation, Mils.	123.6	134.4	139.3				132.4
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.78	2.81	2.63				2.74
120	2.76	2.79	2.58				2.71
180	2.71	2.78	2.52				2.67
240	2.63	2.72	2.39				2.58
300	2.53	2.55	2.40				2.49
360	2.40	2.40	2.21				2.34
420	2.34	2.33	2.15				2.27
480	2.21	2.23	2.12				2.19
540	2.14	2.13	2.03				2.10
600	2.06	2.06					2.04
660		2.02					
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 239- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3C CURRENT DENSITY 597 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3876	1.3872	1.3884				1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.6	7.2	8.4				7.7

Date Pellets Vacuum Dried: _____

Peak Voltage	1.75	1.68	1.68				1.70
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	13.4	13.0	14.2				13.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	1.68	1.58	1.68				1.65
120	1.62	1.55	1.62				1.60
180	1.32	1.34	1.30				1.32
240	1.24	1.25	1.24				1.24
300							
360							
420 O.C.V.	2.48	2.50	2.50				2.49
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 240- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3C CURRENT DENSITY 597 ma./sq. in.

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3877	1.3873				1.3875
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	7.7	7.3				7.5

Date Pellets Vacuum Dried: _____

Peak Voltage	1.75	1.80	1.80				1.78
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	20.6	28.1	23.6				24.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	1.65	1.67	1.67				1.66
120	1.56	1.62	1.63				1.60
180	1.31	1.38	1.33				1.34
240	1.10	1.18	1.23				1.17
300							
360							
420 O.C.V.	2.40	2.45	2.35				2.40
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 241 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3C CURRENT DENSITY 597 ma./sq. in.

ACETATE COAT 35/60

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3879	1.3884				1.3879
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	7.9	8.4				7.9

Date Pellets Vacuum Dried: _____ .

Peak Voltage	1.50	1.45	1.30				1.42
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	21.5	25.4	26.3				24.4
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	.70	.83	.75				.76
120	.68	.78	.75				.74
180	.65	.72	.67				.68
240	.60	.65	.62				.62
300							
360							
420 O.C.V.	2.00	2.10	1.95				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 242 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3C CURRENT DENSITY 597 ma./sq. in.

ACETATE COAT 35/180

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3883	1.3888				1.3883
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	8.3	8.8				8.3

Date Pellets Vacuum Dried: _____

Peak Voltage	1.53	1.50	1.45				1.49
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	38.3	29.6	31.7				33.2
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	.50	.70	.70				.63
120	.50	.65	.58				.58
180	.63	.60	.62				.62
240	.55	.55	.55				.55
300							
360							
420 O.C.V.	2.55	2.48	2.40				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 243 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3C CURRENT DENSITY 597 ma./sq. in.

ACETATE COAT 50/1.5

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3873	1.3870	1.3867	1.3863		1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	7.3	7.0	6.7	6.3		7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.06	1.99	2.07	1.99	1.99		2.02
Time to 2.0 V. Sec.	23	0	25	0	0		9.6
Alloy, Count	0	0	0	0	0		0
Deformation, Mils.	16.2	13.5	14.6	16.4	22.6		16.7
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	1.94	1.86	1.96	1.84	1.94		1.91
120	1.15	1.09	1.15	1.20	1.25		1.17
180	1.15	1.12	1.18	1.19	1.17		1.16
240	1.09	1.09	1.11	1.09	1.08		1.09
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50	2.50		2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 244 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3C CURRENT DENSITY 597 ma./sq. in.

ACETATE COAT 50/2.5

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3868	1.3889	1.3864	1.3887			1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.8	8.9	6.4	8.7			7.7

Date Pellets Vacuum Dried: _____

Peak Voltage	1.99	1.88	1.82	1.83			1.88
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	Pellet Cracked		26.6	19.7			23.2
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	1.83	1.88	1.80	1.76			1.82
120	1.07	1.14	1.10	.08			1.05
180	1.04	1.10	1.06	.90			1.03
240	1.00	1.05	.98	.86			.97
300							
360							
420 O.C.V.	2.45	2.50	2.45	2.50			2.48
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 245 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3C CURRENT DENSITY 597 ma./sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3882	1.3874	1.3877	1.3871			1.3876
Weight, gm.	2.3331	2.3434	2.3638	2.3695			2.3525
Density - gms/cm^3							
Growth, mils.	8.2	7.4	7.7	7.1			7.6

Date Pellets Vacuum Dried: _____

Peak Voltage	1.45	1.52	1.45	1.48			1.48
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	33.6	37.5	35.4	32.3			34.7
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	.70	.88	.67	.64			.72
120	.78	.83	.70	.68			.75
180	.73	.78	.64	.64			.70
240	.65	.68	.58	.61			.63
300							
360							
420 O.C.V.	2.25	2.25	2.30	2.35			
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 246 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-3C CURRENT DENSITY 597 ma./sq. in.

ACETATE COAT 50/10

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3880	1.3876				1.3878
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	8.0	7.6				7.8

Date Pellets Vacuum Dried: _____

Peak Voltage	1.50	1.55	1.55				1.53
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	38.9	36.7	37.2				37.6
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	.83	.85	.90				.86
120	.65	.84	.75				.75
180	.68	.73	.68				.70
240	.60	.65	.63				.63
300							
360							
420 O.C.V.	2.25	2.05	2.05				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 247 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-3C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3883	1.3887	1.3886				1.3885
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.3	8.7	8.6				8.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.88	2.87				2.87
Time to 2.0 V. Sec.	137	138	178				151
Alloy, Count	150	180	148				159
Deformation, Mils.	125.0	125.3	127.4				125.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.48	2.54	2.48				2.50
120	2.08	2.07	2.22				2.12
180	1.90	1.84	1.98				1.91
240	1.73	1.72	1.87				1.77
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 248 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-3C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3878	1.3882	1.3882				1.3881
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.8	8.2	8.2				8.1

Date Pellets Vacuum Dried: _____

Peak Voltage	2.86	2.88	2.87				2.87
Time to 2.0 V. Sec.	246	185	174				201.7
Alloy, Count	180	145	180				168
Deformation, Mils.	117.2	137.8	121.0				125.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.43	2.57	2.40				2.47
120	2.36	2.41	2.22				2.33
180	2.18	2.01	1.98				2.06
240	2.02	1.78	1.68				1.83
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 249- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-3C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/600

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3875	1.3875	1.3870	1.3882			1.3876
Weight, gm.	2.3709	2.3600	2.3705	2.3627			2.3660
Density - gms/cm^3							
Growth, mils.	7.5	7.5	7.0	8.2			7.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.76	2.75	2.75	2.76			2.76
Time to 2.0 V. Sec.	520	592	360	514			497
Alloy, Count	22	26	10	23			20
Deformation, Mils.	98.4	112.6	103.6	119.6			108.6
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.46	2.53	2.65	2.49			2.53
120	2.32	2.37	2.46	2.38			2.38
180	2.18	2.28	2.31	2.26			2.26
240	2.13	2.22	2.19	2.23			2.19
300	2.20	2.21	2.08	2.22			2.18
360	2.23	2.23	2.00	2.22			2.19
420	2.18	2.20		2.12			2.17
480	2.05	2.18					
540		2.08					
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 250 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-3C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/30

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3876	1.3867	1.3878			1.3873
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	7.6	6.7	7.8			7.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.65	2.80	2.80	2.79			2.76
Time to 2.0 V. Sec.	184	136	147	146			153
Alloy, Count	13	7	77	9			27
Deformation, Mils.	105.7	93.4	113.4	98.6			102.8
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.33	2.28	2.28	2.74			2.41
120	2.13	2.04	2.08	2.15			2.10
180	2.03	1.87	1.78	1.90			1.90
240	1.84	1.84	1.69	1.72			1.77
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

Momentary short @ 12 sec.

Momentary short @ 14 sec.

Momentary short @ 14 sec.

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TABLE 251 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-3C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/60

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3861	1.3867	1.3877	1.3850		1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	6.1	6.7	7.7	5.0		6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.84	2.85	2.83	2.83	2.85		2.84
Time to 2.0 V. Sec.	286	305	315	322	418		329
Alloy, Count	31	7	10	11	8		13
Deformation, Mils.	94.3	87.2	84.6	78.9	88.5		86.7
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.76	2.82	2.81	2.77	2.82		2.80
120	2.64	2.83	2.81	2.68	2.85		2.76
180	2.40	2.54	2.64	2.40	2.78		2.55
240	2.15	2.23	2.45	2.22	2.62		2.33
300		2.01	2.08	2.08	2.37		2.11
360					2.23		
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 252- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-3C CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/180

LBS. OF FORCE ON CELL 300

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3869	1.3870				1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	6.9	7.0				6.8

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.88	2.87	2.88				2.88
Time to 2.0 V. Sec.	372	470	585				476
Alloy, Count	26	65	110				.67
Deformation, Mils.	101.6	114.6	102.6				106.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.81	2.82	2.78				2.80
120	2.75	2.78	2.81				2.78
180	2.59	2.68	2.78				2.68
240	2.44	2.53	2.75				2.57
300	2.27	2.48	2.56				2.44
360	2.03	2.38	2.42				2.28
420		2.28	2.34				2.20
480		2.16	2.24				
540			2.09				
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 253 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3854	1.3869				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	5.4	6.9				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.33	2.32	2.32				2.32
Time to 2.0 V. Sec.	108	109	130				116
Alloy, Count	0	10	7				6
Deformation, Mils.	Pellet Cracked	34.5	31.4				33.0
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.30	2.28	2.27				2.28
120	1.60	1.70	2.07				1.79
180	1.86	1.64	1.66				1.72
240	1.76	1.72	1.66				1.71
300							
360 O.C.V.	2.50	2.50	2.52				2.51
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 254 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3870	1.3870				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	7.0	7.0				7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.32	2.32	2.32				2.32
Time to 2.0 V. Sec.	113	122	113				116
Alloy, Count	5	9	17				10
Deformation, Mils.	43.3	33.0	37.4				37.9
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.28	2.28	2.28				2.28
120	1.64	1.76	1.66				1.69
180	1.71	1.71	1.76				1.73
240	1.60	1.73	1.67				1.67
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 255 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 20/600

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3870	1.3877	1.3075	1.3870		1.3873
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	7.0	7.7	7.5	7.0		7.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.28	2.31	2.33	2.33	2.29		2.31
Time to 2.0 V. Sec.	129	129	128	123	124		127
Alloy, Count	17	7	10	18	26		16
Deformation, Mils.	45.6	48.3	52.2	30.0	51.6		40.1
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.25	2.27	2.28	2.28	2.25		2.27
120	2.08	2.13	2.03	2.05	2.04		2.07
180	1.38	1.09	1.70	1.50	1.48		1.43
240	1.43	1.30	1.62	1.50	1.48		1.47
300							
360							
420 O.C.V.	2.48	2.48	2.48	2.48	2.50		
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 256 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 25/15

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3863	1.3867				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.3	6.7				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.32	2.33	2.32				2.32
Time to 2.0 V. Sec.	71	68	72				70
Alloy, Count	40	62	50				51
Deformation, Mils.	25.1	34.3	34.2				31.2
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.28	2.28	2.28				2.28
120	1.80	1.42	1.25				1.49
180	1.79	1.73	1.58				1.70
240	1.62	1.61	1.54				1.59
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 257 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 25/30

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3872	1.3867				1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	7.2	6.7				6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.33	2.33	2.33				2.33
Time to 2.0 V. Sec.	76	69	82				76
Alloy, Count	57	40	54				50
Deformation, Mils.	28.6	37.6	36.4				34.2
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.29	2.28	2.28				2.28
120	1.28	1.44	1.35				1.36
180	1.55	1.67	1.72				1.65
240	1.56	1.57	1.57				1.57
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 258 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 25/60

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3862	1.3867				1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.							

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.33	2.33	2.33				2.33
Time to 2.0 V. Sec.	72	52	71				65
Alloy, Count	48	42	55				48
Deformation, Mils.	33.2	35.8	34.3				34.4
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.29	2.28	2.28				2.28
120	1.72	1.42	1.68				1.61
180	1.77	1.77	1.80				1.78
240	1.55	1.56	1.56				1.56
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 259 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 35/15

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3867	1.3869	1.3873			1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	6.7	6.9	7.0			6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.09	2.08	2.03	2.02			2.06
Time to 2.0 V. Sec.	47	19	14	20			25
Alloy, Count	0	0	0	0			0
Deformation, Mils.	49.6	46.2	44.3	49.0			47.3
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	1.38	1.50	1.56	1.83			1.57
120	1.23	1.19	1.87	1.74			1.51
180	2.09	1.80	1.72	1.72			1.83
240	1.98	1.71	1.62	1.60			1.73
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 260 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 35/30

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3863	1.3863	1.3866	1.3863		1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	6.0	6.3	6.6	6.3		6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	1.70	1.99	2.00	1.77	1.90		1.87
Time to 2.0 V. Sec.	0	0	2	0	0		0
Alloy, Count	30.2	30.9	31.2	32.2	34.6		31.8
Deformation, Mils.	90	90	90	90	90		90
Wetting, %							

	Voltage						
60 Seconds	.48	.60	.66	.72	.58		.61
120	.96	1.41	1.26	1.12	1.11		1.17
180	1.30	1.95	1.98	1.40	1.66		1.66
240	1.70	1.79	1.60	1.36	1.60		1.61
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 261 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 35/60

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3866	1.3867	1.3865			1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.6	6.7	6.5			6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	1.88	1.78	1.87	1.93			1.87
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	52.2	52.1	49.6	54.3			52.1
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	1.20	1.50	1.38	1.64			1.43
120	1.75	1.55	1.65	1.85			1.70
180	1.83	1.66	1.87	1.78			1.79
240	1.70	1.56	1.70	1.67			1.66
300							
360							
420 O.C.V.	2.48	2.50	2.51	2.50			2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 262 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 35/180

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3867	1.3863	1.3873			1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	6.7	6.3	7.3			6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	1.60	1.74	1.75	1.67			1.69
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	59.3	53.3	57.2	51.6			55.4
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	.70	1.04	.66	.66			.77
120	.82	1.35	1.22	1.26			1.16
180	1.40	1.74	1.75	1.46			1.59
240	1.60	1.65	1.60	1.67			1.63
300							
360							
420 O.C.V.	2.52	2.50	2.50	2.50			2.51
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 263 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000ma./sq. in.

ACETATE COAT 50/1.5

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3862	1.3866				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.2	6.6				6.5

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.26	2.27	2.26				2.26
Time to 2.0 V. Sec.	114	112	108				111
Alloy, Count	0	0	0				0
Deformation, Mils.	34.7	33.2	32.2				33.4
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.26	2.27	2.25				2.26
120	2.17	2.17	2.16				2.17
180	1.63	1.63	1.53				1.60
240	1.35	1.42	1.37				1.38
300							
360							
420 O.C.V.	2.50	2.50	2.50				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 264 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 50/2.5

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3867	1.3860	1.3866			1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	6.7	6.0	6.6			6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	1.82	1.90	1.85	1.83			1.85
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	37.0	37.3	30.2	36.3			35.2
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	.96	.50	1.30	1.52			1.07
120	1.18	.97	1.51	1.52			1.30
180	1.42	1.06	1.70	1.41			1.40
240	1.28	1.88	1.44	1.56			1.54
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 265 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4B CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3860	1.3865				1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.0	6.5				6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	1.67	1.66	1.60				1.64
Time to 2.0 V. Sec.	0	0	0				0
Alloy, Count	0	0	0				0
Deformation, Mils.	33.0	39.3	34.6				35.6
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	1.12	1.22	.90				1.08
120	1.12	1.40	1.15				1.22
180	1.62	1.66	1.25				1.51
240	1.42	1.59	1.66				1.56
300							
360							
420 O.C.V.	2.53	2.52	2.52				2.52
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 266 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 450

DEB LOT NO. SA-4A CURRENT DENSITY 1000 ma./sq. in.

ACETATE COAT 50/10

LBS. OF FORCE ON CELL 30

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3876	1.3875	1.3869	1.3870			1.3873
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.6	7.5	6.9	7.0			7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	1.68	1.63	1.68	1.69			1.67
Time to 2.0 V. Sec.	0	0	0	0			0
Alloy, Count	0	0	0	0			0
Deformation, Mils.	35.2	16.4	26.2	23.0			25.2
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	1.22	1.40	1.42	1.40			1.36
120	1.22	1.35	1.24	1.17			1.25
180	1.52	1.44	1.48	1.22			1.42
240	1.59	1.47	1.59	1.60			1.56
300							
360							
420 O.C.V.	2.52	2.52	2.52	2.53			
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 267 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/180

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3868	1.3871	1.3870	1.3870			1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.8	7.1	7.0	7.0			7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.80	2.88	2.85	2.86			2.85
Time to 2.0 V. Sec.	16	16	15	15			15.5
Alloy, Count	339	312	295	346			323
Deformation, Mils.	---- Masked by Alloy ----------						
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	.78	.66	.76	.76			.74
120	.67	.60	.69	.63			.65
180	.64	.58	.66	.62			.64
240	.66	.58	.67	.60			.63
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 268 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/420

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3867	1.3868	1.3879	1.3866		1.3871
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	6.7	6.8	7.9	6.6		7.1

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.88	2.87	2.88	2.85	2.82		2.86
Time to 2.0 V. Sec.	17	19	19	24	26		21
Alloy, Count	232	227	196	230	228		223
Deformation, Mils.	144.6	150.3	145.9	133.1	134.7		141.7
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	.96	.46	1.08	1.20	1.34		1.01
120	.81	.90	.86	.88	1.02		.89
180	.88	1.42	.89	.84	.99		1.00
240	.96	1.68	.98	.89	1.08		1.12
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 269 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 20/600

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3869	1.3864				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	6.9	6.4				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.86	2.83	2.83				2.84
Time to 2.0 V. Sec.	469	337	632				479
Alloy, Count	195	142	168				168
Deformation, Mils.	148.1	147.7	150.5				148.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.73	2.78	2.68				2.73
120	2.62	2.62	2.59				2.61
180	2.50	2.33	2.55				2.46
240	2.24	2.23	2.49				2.32
300	2.15	2.09	2.33				2.19
360	2.11		2.26				2.13
420	2.03		2.17				2.10
480			2.08				
540			2.03				
600			2.02				
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 270 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/15

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3869	1.3866	1.3863	1.3868		1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	6.9	6.6	6.3	6.8		6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.84	2.86	2.83	2.86	2.86		2.85
Time to 2.0 V. Sec.	224	312	307	403	487		347
Alloy, Count	160	178	190	212	167		181
Deformation, Mils.	146.6	145.7	144.8	151.6	146.8		147.1
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.62	2.67	2.77	2.77	2.80		2.73
120	2.48	2.58	2.70	2.68	2.80		2.65
180	2.18	2.44	2.56	2.56	2.77		2.50
240	1.93	2.22	2.34	2.33	2.63		2.29
300		2.03	2.03	2.18	2.42		2.13
360				2.04	2.23		
420					2.12		
480					2.02		
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 271 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/30

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3863	1.3862	1.3864			1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.3	6.2	6.4			6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.88	2.85	2.92			2.88
Time to 2.0 V. Sec.	274	306	220	259			265
Alloy, Count	40	62	75	70			62
Deformation, Mils.	138.5	148.7	147.8	Masked			144.9
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.79	2.82	2.70	2.73			2.76
120	2.64	2.73	2.65	2.63			2.66
180	2.43	2.52	2.35	2.40			2.43
240	2.13	2.22	1.90	2.15			2.10
300		2.03					
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 272 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/60

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3874	1.3871				1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	7.4	7.1				7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.87	2.88	2.86				2.87
Time to 2.0 V. Sec.	317	314	307				313
Alloy, Count	84	110	60				85
Deformation, Mils.	145.9	147.5	152.0				148.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.84	2.78	2.82				2.81
120	2.75	2.69	2.74				2.73
180	2.58	2.53	2.49				2.27
240	2.32	2.33	2.16				2.27
300	2.15	2.04	2.02				2.07
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 273 - ACETATE-COATED ANODE STUDY [redacted]

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 35/180

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3875	1.3876	1.3860	1.3868	1.3871		1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.5	7.6	6.0	6.8	7.1		7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.85	2.87	2.83	2.83	2.78		2.83
Time to 2.0 V. Sec.	360	233	280	313	245		286
Alloy, Count	52	80	70	52	38		58
Deformation, Mils.	149.5	143.3	156.2	148.3	143.6		148.2
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.82	2.76	2.81	2.83	2.78		2.80
120	2.77	2.59	2.76	2.67	2.52		2.66
180	2.49	2.33	2.49	2.44	2.25		2.40
240	2.28		2.24	2.20	2.02		2.19
300	2.05		2.03				2.04
360	2.00						2.00
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 274- ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/1.5

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3865	1.3864				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.5	6.4				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.82	2.84	2.83				2.83
Time to 2.0 V. Sec.	432	450	309				397
Alloy, Count	140	122	177				146
Deformation, Mils.	150.6	140.7	149.2				146.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.78	2.76	2.68				2.74
120	2.72	2.67	2.51				2.63
180	2.58	2.53	2.30				2.47
240	2.33	2.25	2.18				2.25
300	2.22	2.18	2.03				2.14
360	2.11	2.08					2.09
420	2.03	2.02					
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE . 275 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/2.5

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3873	1.3877				1.3874
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	7.3	7.7				7.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.85	2.83	2.85				2.84
Time to 2.0 V. Sec.	187	237	200				208.0
Alloy, Count	216	202	275				231
Deformation, Mils.	136.4	135.6	142.4				138.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.81	2.78	2.68				2.76
120	2.60	2.49	2.43				2.51
180	2.06	2.20	2.08				2.11
240	2.10	1.99	1.86				1.98
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 276 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/5

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3875	1.3874	1.3871	1.3873	1.3871		1.3873
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.5	7.4	7.1	7.3	7.1		7.3

Date Pellets Vacuum Dried: _____.

Peak Voltage	2.83	2.81	2.82	2.83	2.83		2.82
Time to 2.0 V. Sec.	291	172	280	228	276		249.4
Alloy, Count	102	96	112	138	99		109
Deformation, Mils.	137.6	138.5	Cracked Pellet	132.7	142.8		137.9
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.82	2.55	2.80	2.66	2.81		2.73
120	2.54	2.26	2.63	2.45	2.60		2.50
180	2.23	1.99	2.28	2.14	2.31		2.19
240	2.12	1.81	2.13	1.88	2.12		2.01
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 277 - ACETATE-COATED ANODE STUDY

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-4B CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 50/10

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3879	1.3884	1.3873	1.3878	1.3870		1.3877
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.9	8.4	7.3	7.8	7.0		7.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.84	2.84	2.83	2.87	2.83		2.84
Time to 2.0 V. Sec.	260	254	219	230	180		228.6
Alloy, Count	67	78	94	94	127		92
Deformation, Mils.	134.3	134.4	138.2	133.1	150.6		138.1
Wetting, %	100	100	100	100	100		100

	Voltage						
60 Seconds	2.79	2.68	2.77	2.67	2.74		2.73
120	2.58	2.38	2.48	2.63	2.47		2.51
180	2.32	2.14	2.12	2.37	2.00		2.19
240	2.08	2.03	1.91	1.98	1.74		1.95
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 278 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3860	1.3874				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	6.0	7.4				6.6

Date Pellets Vacuum Dried:

Peak Voltage	2.90	2.93	2.90				2.91
Time to 2.0 V. Sec.	20	145	10				
Alloy, Count	39	19	4				21
Deformation, Mils.	22.2	20.0	21.2				21.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.62*	2.92	2.78*				2.77
120	2.74	2.93	2.81				2.83
180	2.73	2.79*	2.83				2.78
240	2.69	2.86	2.83				2.79
300	2.73	2.74	2.84				2.79
360	2.73	2.79	2.83				2.78
420	2.73	2.73	2.79				2.75
480	2.72	2.73	2.79				2.75
540	2.72	2.74	2.76				2.74
600	2.69	2.75	2.69				2.71
660	2.68	2.76	2.68				2.71
720	2.66	2.76	2.68				2.70
780	2.61	2.75	2.67				2.68
840	2.58	2.74	2.65				2.66
900	2.56	2.73	2.61				2.63
960	2.53	2.73	2.58				2.61
1020	2.48	2.72	2.58				2.59
1080	2.43	2.71	2.60				2.58
1140	2.38	2.71	2.59				2.56
1200	2.18	2.68	2.59				2.48
1260		2.67	2.58				2.42
1320		2.66	2.57				2.40
1380		2.64	2.57				2.36
1440		2.63	2.57				2.30
1500		2.63	2.57				2.25

*Shorted

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TABLE 279 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/150 0.4 HNO_3

LBS. OF FORCE ON CELL 60

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3874	1.3867	1.3857				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.4	6.7	5.7				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.96	2.94	2.96				2.95
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	47	41	45				44
Deformation, Mils.	48.2	47.1	48.5				47.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.91	2.91	2.91				2.91
120	2.89	2.91	2.90				2.90
180	2.89	2.91	2.90				2.90
240	2.88	2.91	2.90				2.90
300	2.88	2.91	2.90				2.90
360	2.88	2.91	2.90				2.90
420	2.88	2.89	2.90				2.89
480	2.88	2.88	2.89				2.88
540	2.88	2.88	2.88				2.88
600	2.87	2.87	2.88				2.87
660	2.87	2.86	2.87				2.87
720	2.86	2.86	2.87				2.86
780	2.84	2.84	2.85				2.84
840	2.83	2.80	2.83				2.82
900	2.79	2.78	2.79				2.79
960	2.76	2.77	2.78				2.77
1020	2.73	2.74	2.75				2.74
1080	2.68	2.68	2.69				2.68
1140	2.63	2.63	2.64				2.63
1200	2.63	2.63	2.63				2.63
1260	2.63	2.59	2.62				2.61
1320	2.62	2.57	2.60				2.60
1380	2.61	2.55	2.59				2.58
1440	2.59	2.52	2.57				2.56
1500	2.54	2.50	2.52				2.52

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TABLE 280 - DEB POWDER ACETATE-COATED ANODE STUDY

BIMETAL NO. 2 T°C 525°C

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3874	1.3857				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	7.4	5.7				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.93	2.94	2.93				2.93
Time to 2.0 V. Sec.	>1500	>1500	60				
Alloy, Count	6	0	0				2
Deformation, Mils.	46.7	53.4	46.2				50
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.93	2.94	short				
120	2.93	2.93	2.68				
180	2.93	2.93	2.73				
240	2.93	2.93	2.73				
300	2.93	2.93	2.76				
360	2.91	2.91	2.76				
420	2.90	2.90	2.77				
480	2.88	2.89	2.77				
540	2.87	2.88	2.76				
600	2.86	2.86	2.74				
660	2.86	2.84	2.72				
720	2.84	2.80	2.71				
780	2.83	2.78	2.70				
840	2.85	2.74	2.69				
900	2.78	2.73	2.68				
960	2.77	2.66	2.68				
1020	2.78	2.63	2.67				
1080	2.70	2.63	2.66				
1140	2.67	2.61	2.64				
1200	2.65	2.57	2.63				
1260	2.65	2.58	2.62				
1320	2.64	2.53	2.59				
1380	2.63	2.51	2.57				
1440	2.62	2.48	2.53				
1500	2.61	2.43	2.48				

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TABLE 281- ACETATE-COATED ANODE STUDY. CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/300 .4 HN03

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3870	1.3862				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	7.0	6.2				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.96	2.95	2.96				2.96
Time to 2.0 V. Sec.	<1500	<1500	<1500				<1500
Alloy, Count	0	0	0				0
Deformation, Mils.	74.2	68.2	70.1				70.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.90	2.91	2.91				2.91
120	2.92	2.92	2.91				2.92
180	2.92	2.91	2.91				2.91
240	2.92	2.91	2.89				2.90
300	2.91	2.90	2.89				2.90
360	2.89	2.88	2.89				2.89
420	2.88	2.86	2.88				2.87
480	2.86	2.86	2.84				2.85
540	2.84	2.84	2.83				2.84
600	2.83	2.82	2.83				2.83
660	2.79	2.78	2.81				2.79
720	2.77	2.68	2.77				2.74
780	2.71	2.62	2.73				2.69
840	2.61	2.62	2.69				2.64
900	2.58	2.58	2.68				2.61
960	2.54	2.53	2.64				2.57
1020	2.52	2.43	2.63				2.52
1080	2.46	2.42	2.63				2.50
1140	2.42	2.38	2.62				2.47
1200	2.37	2.32	2.61				2.43
1260	2.29	2.24	2.61				2.38
1320	2.21	2.18	2.58				2.33
1380	2.14	2.13	2.56				2.28
1440	2.07	2.08	2.54				2.26
1500	2.02	2.04	2.53				2.20

Burned Lead

Burned Lead

[redacted]

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TABLE 282- ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 10 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3876	1.3865	1.3869				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.6	6.5	6.9				7.0

Date Pellets Vacuum Dried:

Peak Voltage	2.96	2.96	2.96				2.96
Time to 2.0 V. Sec.	158	40	>1500				
Alloy, Count	18	42	39				33
Deformation, Mils.	18.1	10.6	14.2				14.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.91	2.89	2.89				2.89
120	2.89	2.89	2.89				2.89
180	2.70	2.83	2.88				2.80
240	2.78	2.79	2.88				2.81
300	2.74	2.53	2.81				2.69
360	2.63	2.75	2.73				2.70
420	2.75	2.75	2.73				2.74
480	2.67	2.75	2.66				2.69
540	2.67	2.75	2.68				2.70
600	2.67	2.74	2.70				2.70
660	2.67	2.74	2.70				2.70
720	2.68	2.72	2.69				2.70
780	2.68	2.71	2.68				2.69
840	2.67	2.71	2.68				2.69
900	2.67	2.69	2.66				2.67
960	2.67	2.68	2.67				2.67
1020	2.65	2.68	2.64				2.66
1080	2.64	2.68	2.61				2.64
1140	2.64	2.68	2.58				2.63
1200	2.63	2.67	2.58				2.63
1260	2.63	2.66	2.58				2.62
1320	2.61	2.65	2.56				2.60
1380	2.60	2.63	2.54				2.59
1440	2.59	2.63	2.53				2.58
1500	2.58	2.62	2.53				2.58

Shorted at 158 sec 442 short came back 50 sec.

Shorted at 40 sec 16 sec. Noise to 19

[redacted]

TABLE 283 ACETATE-COATED ANODE STUDY, [redacted] SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 10 ma./sq. in.

ACETATE COAT 25/150 0.4 HN03

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3871	1.3869				1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	7.1	6.9				7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.94	2.94	2.94				2.94
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	57	49	36				47
Deformation, Mils.	49.0	28.6	34.2				37.3
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.91	2.91	2.70				2.84
120	2.91	2.91	2.77				2.86
180	2.91	2.91	2.68				2.83
240	2.91	2.91	2.60				2.81
300	2.91	2.91	2.66				2.83
360	2.89	2.89	2.67				2.82
420	2.88	2.88	2.68				2.81
480	2.87	2.87	2.68				2.81
540	2.86	2.87	2.68				2.80
600	2.86	2.87	2.66				2.77
660	2.84	2.86	2.62				2.77
720	2.83	2.86	2.62				2.75
780	2.79	2.86	2.59				2.73
840	2.78	2.84	2.57				2.70
900	2.74	2.82	2.54				2.67
960	2.71	2.78	2.53				2.65
1020	2.67	2.76	2.51				2.60
1080	2.64	2.68	2.47				2.58
1140	2.64	2.66	2.44				2.55
1200	2.63	2.62	2.41				2.54
1260	2.63	2.61	2.38				2.52
1320	2.63	2.59	2.33				2.49
1380	2.62	2.57	2.29				2.47
1440	2.59	2.54	2.28				2.47
1500	2.58	2.52	2.27				2.46

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TABLE 284 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 10 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3859	1.3864	1.3856				1.3860
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.9	6.4	5.6				6.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.91	2.89	2.91				2.90
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	0	0	0				0
Deformation, Mils.	52.2	41.6	52.0				48.6
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.73	2.70	2.77				2.73
120	2.73	2.57	2.68				2.66
180	2.69	2.66	2.67				2.67
240	2.68	2.63	2.59				2.63
300	2.68	2.66	2.58				2.65
360	2.68	2.66	2.57				2.64
420	2.68	2.66	2.43				2.59
480	2.67	2.68	2.47				2.59
540	2.67	2.61	2.51				2.60
600	2.66	2.58	2.55				2.60
660	2.66	2.56	2.67				2.60
720	2.66	2.56	2.59				2.60
780	2.66	2.56	2.61				2.61
840	2.66	2.57	2.63				2.62
900	2.66	2.56	2.64				2.62
960	2.66	2.53	2.64				2.61
1020	2.64	2.48	2.64				2.59
1080	2.63	2.44	2.64				2.57
1140	2.63	2.46	2.66				2.58
1200	2.62	2.46	2.66				2.58
1260	2.59	2.43	2.66				2.56
1320	2.58	2.43	2.64				2.55
1380	2.56	2.42	2.63				2.54
1440	2.54	2.42	2.63				2.52
1500	2.52	2.38	2.61				2.50

Noise 39 sec. to 42 sec.

Noise 53 sec. to 60 - noise 76 sec. to 84

Noise 52 sec. to 59 sec.

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TABLE 285- ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 10 ma./sq. in.

ACETATE COAT 25/300 0.4 HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3864	1.3861	1.3870				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.4	6.1	7.0				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.93	2.92	2.93				2.93
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	41	48	62				50
Deformation, Mils.	94.1	78.6	76.0				82.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.89	2.92	2.89				2.90
120	2.98	2.91	2.88				2.89
180	2.86	2.91	2.87				2.88
240	2.83	2.89	2.86				2.86
300	2.81	2.94	2.84				2.86
360	2.81	2.88	2.83				2.84
420	2.79	2.87	2.82				2.83
480	2.77	2.81	2.81				2.80
540	2.76	2.87	2.81				2.81
600	2.74	2.84	2.81				2.80
660	2.73	2.80	2.79				2.77
720	2.69	2.79	2.79				2.76
780	2.68	2.78	2.78				2.75
840	2.63	2.74	2.77				2.71
900	2.61	2.72	2.76				2.70
960	2.59	2.68	2.75				2.64
1020	2.59	2.63	2.69				2.64
1080	2.58	2.63	2.66				2.62
1140	2.57	2.63	2.63				2.61
1200	2.61	2.61	2.62				2.61
1260	2.57	2.58	2.59				2.58
1320	2.57	2.57	2.59				2.58
1380	2.56	2.57	2.59				2.57
1440	2.53	2.53	2.59				2.56
1500	2.53	2.52	2.58				2.54

[redacted]

TABLE 286. - ACETATE-COATED ANODE [redacted] CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 50 ma./sq.

ACETATE COAT

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av
Thickness, Mils							
Diameter, in.	1.3867	1.3865	1.3861				1.386
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.5	6.1				6.4

Date Pellets Vacuum Dried:

Peak Voltage	2.87	2.70	2.73				2.77
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	11	4	7				7
Deformation, Mils.	28.1	22.2	23.6				24.6
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.82	2.70	2.71				2.74
120	2.77	2.67	2.67				2.70
180	2.72	2.67	2.68				2.69
240	2.67	2.66	2.67				2.67
300	2.64	2.65	2.67				2.65
360	2.64	2.64	2.65				2.64
420	2.64	2.63	2.62				2.63
480	2.64	2.63	2.62				2.63
540	2.64	2.61	2.61				2.62
600	2.64	2.58	2.58				2.60
660	2.63	2.57	2.58				2.59
720	2.63	2.53	2.57				2.58
780	2.62	2.53	2.56				2.57
840	2.61	2.50	2.54				2.55
900	2.61	2.48	2.53				2.54
960	2.59	2.45	2.52				2.52
1020	2.59	2.43	2.49				2.50
1080	2.59	2.44	2.47				2.50
1140	2.58	2.43	2.44				2.48
1200	2.57	2.41	2.42				2.47
1260	2.56	2.39	2.40				2.44
1320	2.55	2.39	2.38				2.44
1380	2.54	2.38	2.38				2.44
1440	2.53	2.38	2.38				2.43
1500	2.51	2.37	2.36				2.41

Noise 10 to 21 sec. Noise 10 to 20 sec. Noise 10 to 45 sec.

[redacted]

TABLE 287 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 50 ma./sq. in

ACETATE COAT 25/150 .470 HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3859	1.3855	1.3867				1.3860
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.9	5.5	6.7				6.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.86	2.87	2.86				2.86
Time to 2.0 V. Sec.	>1500	1161	1444				
Alloy, Count	82	116	73				90
Deformation, Mils.	50.2	55.2	44.2				49.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.83	2.76	2.83				2.80
120	2.81	2.77	2.79				2.79
180	2.76	2.73	2.76				2.75
240	2.71	2.68	2.72				2.70
300	2.67	2.64	2.68				2.66
360	2.62	2.64	2.64				2.63
420	2.61	2.64	2.63				2.62
480	2.56	2.64	2.63				2.61
540	2.54	2.63	2.63				2.60
600	2.54	2.62	2.63				2.59
660	Noise	2.60	2.62				
720	2.43	2.59	2.58				2.53
780	2.51	2.58	2.54				2.54
840	2.56	2.49	2.53				2.52
900	2.56	2.49	2.49				2.51
960	2.56	2.47	2.43				2.48
1020	2.53	2.44	2.41				2.46
1080	2.57	2.41	2.38				2.45
1140	2.48	2.34	2.27				2.38
1200	2.46	Noise	2.33				
1260	2.44	2.22	2.17				2.27
1320	2.41	2.22	2.11				2.24
1380	2.38	2.19	2.04				2.20
1440	2.34	2.12	2.01				2.15
1500	2.29	2.04					2.11

[redacted]

TABLE 288 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 50 ma./sq. in

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3864	1.3864				1.386
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	6.4	6.4				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.86	2.86	2.87				2.86
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	6	3	19				9
Deformation, Mils.	50.6	51.7	50.1				50.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.84	2.70	2.68				2.74
120	2.79	2.71	2.73				2.74
180	2.76	2.68	2.73				2.72
240	2.73	2.68	2.72				2.72
300	2.67	2.68	2.72				2.69
360	2.63	2.67	2.72				2.67
420	2.62	2.66	2.69				2.66
480	2.62	2.66	2.68				2.65
540	2.62	2.66	2.67				2.65
600	2.62	2.66	2.64				2.64
660	2.62	2.64	2.63				2.63
720	2.62	2.63	2.63				2.63
780	2.62	2.63	2.62				2.62
840	2.61	2.63	2.59				2.61
900	2.61	2.62	2.58				2.60
960	2.59	2.60	2.58				2.59
1020	2.58	2.58	2.57				2.58
1080	2.58	2.58	2.54				2.57
1140	2.47	2.53	2.50				2.53
1200	2.56	2.53	2.47				2.52
1260	2.54	2.48	2.43				2.48
1320	2.51	2.44	2.38				2.44
1380	2.45	2.43	2.38				2.42
1440	2.43	2.39	2.33				2.38
1500	2.39	2.36	2.29				2.35

[redacted]

TABLE 289 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 50 ma./sq. i

ACETATE COAT 25/300 0.4% HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3880	1.3860	1.3867				1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	8.0	6.0	6.7				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.88	2.77	2.86				2.84
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	10	4	23				12
Deformation, Mils.	84.5	92.4	92.3				89.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.81	2.68	2.83				2.77
120	2.74	2.56	2.78				2.69
180	2.66	2.58	2.76				2.67
240	2.64	2.56	2.73				2.64
300	2.66	2.56	2.69				2.64
360	2.63	2.54	2.66				2.61
420	2.61	2.53	2.63				2.59
480	2.62	2.53	2.61				2.59
540	2.62	2.52	2.59				2.58
600	2.63	2.49	2.58				2.57
660	2.62	2.48	2.58				2.56
720	2.62	2.46	2.58				2.55
780	2.63	2.46	2.58				2.56
840	2.62	2.44	2.58				2.55
900	2.62	2.53	2.58				2.58
960	2.62	2.54	2.58				2.58
1020	2.61	2.53	2.58				2.57
1080	2.53	2.53	2.58				2.55
1140	2.53	2.49	2.58				2.53
1200	2.53	2.46	2.58				2.52
1260	2.53	2.44	2.56				2.51
1320	2.53	2.43	2.56				2.51
1380	2.53	2.42	2.56				2.50
1440	2.48	2.41	2.55				2.48
1500	2.52	2.39	2.55				2.49

[redacted]

TABLE 290 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 100 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3850	1.3867	1.3850				1.3856
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.0	6.7	5.0				5.6

Date Pellets Vacuum Dried:

Peak Voltage	2.80	2.78	2.75				2.78
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	71.0	21	25				39
Deformation, Mils.	19.7	14.4	15.6				16.6
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.68	2.67	2.43/Noise				2.67
120	2.64	2.63	2.62				2.63
180	2.63	2.62	2.62				2.62
240	2.63	2.60	2.60				2.61
300	2.63	2.59	2.59				2.60
360	2.63	2.59	2.55				2.59
420	2.60	2.58	2.54				2.56
480	2.60	2.57	2.52				2.55
540	2.60	2.56	2.50				2.54
600	2.59	2.56	2.48				2.53
660	2.58	2.54	2.48				2.51
720	2.57	2.53	2.43				2.51
780	2.54	2.53	2.42				2.50
840	2.53	2.52	2.42				2.49
900	2.52	2.51	2.40				2.48
960	2.52	2.51	2.40				2.48
1020	2.49	2.48	2.40				2.46
1080	2.48	2.48	2.40				2.45
1140	2.46	2.47	2.39				2.44
1200	2.45	2.47	2.39				2.43
1260	2.44	2.46	2.38				2.43
1320	2.44	2.46	2.38				2.43
1380	2.43	2.45	2.38				2.42
1800	2.32	2.43	2.34				2.36

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TABLE 291 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 100 ma.

ACETATE COAT 25/150 0.4 HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3855	1.3860	1.3866				1.3860
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.5	6.0	6.6				6.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.82	2.82	2.82				2.82
Time to 2.0 V. Sec.	1418	>1500	1380				
Alloy, Count	59	43	39				47
Deformation, Mils.	43.2	40.3	49.2				44.2
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.77	2.76	2.77				2.76
120	2.69	2.68	2.68				2.68
180	2.63	2.64	2.66				2.64
240	2.61	2.64	2.64				2.63
300	2.59	2.63	2.64				2.62
360	2.58	2.63	2.62				2.61
420	2.58	2.61	2.61				2.60
480	2.58	2.59	2.61				2.59
540	2.57	2.58	2.59				2.58
600	2.57	2.58	2.58				2.57
660	2.56	2.57	2.57				2.56
720	2.54	2.56	2.54				2.54
780	2.53	2.56	2.54				2.54
840	2.52	2.54	2.52				2.52
900	2.46	2.53	2.46				2.48
960	2.41	2.52	2.42				2.45
1020	2.38	2.48	2.39				2.41
1080	2.36	2.46	2.34				2.38
1140	2.31	2.42	2.31				2.34
1200	2.24	2.41	2.26				2.30
1260	2.19	2.38	2.18				2.35
1320	2.16	2.37	2.16				2.23
1380	2.16	2.33					2.16
1440		2.28					
1500		2.24					

[redacted]

TABLE 292 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 100 ma./sq. in.

ACETATE COAT 25'300

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3857	1.3863	1.3854				1.3858
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.7	6.3	5.4				5.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.78	2.78	2.78				2.78
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	2	4	8				5
Deformation, Mils.	34.3	41.6	39.5				38.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.70	2.68	2.68				2.69
120	2.45	2.63	2.62				2.63
180	2.58	2.61	2.63				2.61
240	2.58	2.63	2.58				2.60
300	2.58	2.63	2.59				2.60
360	2.58	2.63	2.59				2.60
420	2.58	2.62	2.58				2.59
480	2.58	2.61	2.58				2.59
540	2.56	2.59	2.54				2.56
600	2.54	2.58	2.54				2.55
660	2.54	2.53	2.53				2.55
720	2.53	2.55	2.53				2.54
780	2.53	2.54	2.52				2.53
840	2.53	2.54	2.51				2.51
900	2.51	2.53	2.48				2.61
960	2.51	2.51	2.48				2.50
1020	2.50	2.50	2.47				2.49
1080	2.49	2.49	2.47				2.48
1140	2.49	2.48	2.46				2.48
1200	2.47	2.40	2.43				2.43
1260	2.44	2.37	2.43				2.41
1320	2.44	2.42	2.39				2.42
1380	2.43	2.36	2.38				2.39
1800	2.28	2.33	2.23				2.28

[redacted]

TABLE 293 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 100 ma./sq. i

ACETATE COAT 25/300 0.4 HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3864	1.3862				1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.4	6.2				6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.74	2.75	2.75				2.74
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	16	27	29				24
Deformation, Mils.	63.0	63.5	58.6				61.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.72	2.72	2.70				2.71
120	2.63	2.63	2.63				2.63
180	2.58	2.57	2.58				2.58
240	2.56	2.54	2.57				2.56
300	2.55	2.54	2.57				2.55
360	2.54	2.53	2.57				2.55
420	2.54	2.53	2.56				2.54
480	2.54	2.53	2.56				2.54
540	2.54	2.54	2.55				2.54
600	2.54	2.53	2.53				2.53
660	2.53	2.53	2.53				2.53
720	2.53	2.53	2.52				2.53
780	2.52	2.52	2.52				2.52
840	2.52	2.52	2.52				2.52
900	2.51	2.52	2.51				2.51
960	2.49	2.52	2.51				2.50
1020	2.49	2.51	2.49				2.50
1080	2.48	2.49	2.48				2.48
1140	2.48	2.49	2.48				2.43
1200	2.46	2.48	2.47				2.47
1260	2.46	2.46	2.46				2.46
1320	2.45	2.46	2.43				2.45
1380	2.44	2.43	2.41				2.43
1440	2.44	2.41	2.39				2.41
1500	2.43	2.39	2.37				2.39

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TABLE 294 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 200 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3859	1.3870	1.3861				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.9	7.0	6.1				6.3

Date Pellets Vacuum Dried:

Peak Voltage	2.62	2.61	2.55				2.59
Time to 2.0 V. Sec.	1417	>1500	1210				
Alloy, Count	44	36	16				32
Deformation, Mils.	40.1	43.7	39.8				41.2
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.51	2.50	2.53				2.51
120	2.47	2.48	2.48				2.48
180	2.46	2.46	2.44				2.45
240	2.44	2.44	2.42				2.43
300	2.42	2.42	2.39				2.41
360	2.39	2.39	2.38				2.39
420	2.38	2.38	2.37				2.38
480	2.37	2.37	2.34				2.36
540	2.36	2.35	2.33				2.35
600	2.34	2.34	2.32				2.33
660	2.34	2.34	2.31				2.33
720	2.33	2.34	2.29				2.32
780	2.33	2.33	2.31				2.32
840	2.32	2.32	2.24				2.29
900	2.32	2.31	2.23				2.29
960	2.32	2.30	2.20				2.27
1020	2.31	2.29	2.09				2.23
1080	2.31	2.27	2.19				2.26
1140	2.29	2.23	2.20				2.24
1200	2.29	2.20	2.04				2.18
1260	2.27	2.19					2.15
1320	2.18	2.17					2.12
1380	2.06	2.17					2.08
1440	2.00	2.13					2.04
1500		2.05					2.01

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TABLE 295 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 200 ma./sq. in

ACETATE COAT 25/150 0.4% HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3867	1.3862				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.7	6.2				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.63	2.63	2.63				2.63
Time to 2.0 V. Sec.	1381	1320	1290				1336
Alloy, Count	14	0	2				5.3
Deformation, Mils.	49.0	46.1	51.2				48.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.57	2.55	2.57				2.56
120	2.52	2.48	2.46				2.49
180	2.52	2.48	2.46				2.49
240	2.51	2.46	2.46				2.48
300	2.48	2.43	2.44				2.45
360	2.46	2.41	2.44				2.44
420	2.44	2.39	2.43				2.42
480	2.43	2.38	2.41				2.41
540	2.42	2.38	2.39				2.40
600	2.41	2.37	2.38				2.39
660	2.39	2.34	2.34				2.36
720	2.38	2.32	2.32				2.34
780	2.38	2.29	2.28				2.32
840	2.38	2.23	2.27				2.29
900	2.37	2.23	2.23				2.26
960	2.36	2.21	2.21				2.23
1020	2.34	2.17	2.19				2.20
1080	2.31	2.13	2.17				2.16
1140	2.28	2.11	2.09				2.20
1200	2.23	2.22	2.14				2.11
1260	2.23	2.17	2.03				2.05
1320	2.16	2.00					
1380							
1440							
1500							

[redacted]

TABLE 296 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 200 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3876	1.3860	1.3862				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.6	6.0	6.2				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.69	2.69	2.69				2.69
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	27	22	47				32
Deformation, Mils.	58.3	49.0	64.2				57.2
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.64	2.64	2.62				2.63
120	2.58	2.58	2.47				2.54
180	2.54	2.54	2.47				2.52
240	2.53	2.54	2.44				2.50
300	2.52	2.52	2.44				2.49
360	2.51	2.51	2.43				2.48
420	2.48	2.48	2.42				2.46
480	2.48	2.48	2.41				2.46
540	2.48	2.46	2.38				2.44
600	2.46	2.44	2.36				2.42
660	2.44	2.44	2.34				2.41
720	2.43	2.43	2.32				2.39
780	2.43	2.42	2.29				2.38
840	2.42	2.41	2.28				2.37
900	2.41	2.40	2.27				2.36
960	2.39	2.39	2.24				2.34
1020	2.39	2.38	2.23				2.33
1080	2.38	2.37	2.21				2.32
1140	2.37	2.36	2.21				2.31
1200	2.34	2.34	2.18				2.29
1260	2.32	2.29	2.14				2.25
1320	2.28	2.18	2.09				2.18
1380	2.24	2.21	2.06				2.17
1440	2.12	2.09	2.03				2.08
1500	2.17	2.05	2.02				2.11

[redacted]

TABLE 297 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION [redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 200 ma./sq. in.

ACETATE COAT 25/300 0.4 HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3879	1.3860				1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	7.9	6.0				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.58	2.58	2.58				2.58
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	18	19	8				15
Deformation, Mils.	51.3	53.6	54.2				53.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.54	2.53	2.53				2.53
120	2.48	2.49	2.46				2.48
180	2.43	2.43	2.44				2.43
240	2.45	2.41	2.43				2.43
300	2.43	2.42	2.43				2.43
360	2.43	2.42	2.42				2.42
420	2.41	2.42	2.41				2.41
480	2.41	2.39	2.39				2.40
540	2.39	2.38	2.38				2.38
600	2.38	2.37	2.31				2.39
660	2.38	2.34	2.38				2.37
720	2.37	2.33	2.38				2.36
780	2.37	2.33	2.37				2.36
840	2.36	2.32	2.36				2.35
900	2.34	2.31	2.34				2.33
960	2.33	2.29	2.33				2.32
1020	2.33	2.28	2.33				2.31
1080	2.31	2.27	2.32				2.30
1140	2.31	2.27	2.31				2.30
1200	2.28	2.25	2.28				2.27
1260	2.27	2.23	2.27				2.26
1320	2.23	2.19	2.23				2.22
1380	2.21	2.18	2.21				2.20
1440	2.20	2.13	2.18				2.17
1500	2.20	2.04	2.16				2.13

[redacted]

TABLE 298 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB. LOT NO. SA-1-J CURRENT DENSITY 500 ma./sq. in

ACETATE COAT

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3865	1.3866				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	6.5	6.6				6.6

Date Pellets Vacuum Dried:

Peak Voltage	2.48	2.47	2.47				2.47
Time to 2.0 V. Sec.	544	610	625				593
Alloy, Count	21	13	16				17
Deformation, Mils.	26.2	34.6	34.3				31.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.31	2.38	2.29				2.33
120	2.23	2.24	2.22				2.23
180	2.18	2.24	2.17				2.20
240	2.17	2.22	2.14				2.18
300	2.17	2.23	2.10				2.16
360	2.14	2.19	2.11				2.15
420	2.12	2.17	2.08				2.12
480	2.08	2.12	2.04				2.08
540	2.01	2.07	2.04				2.04
600		2.07	2.03				
660							
720 O.C.V.	2.40	2.45	2.45				
780	Noise 26 sec. to 53 sec.	Noise 26 to 50 sec.	Noise 26 sec. to 40 sec.				
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 299 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 500 ma./sq. in.

ACETATE COAT 25/150 0.4 HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870	1.3852	1.3870				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0	5.2	7.0				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.44	2.47	2.48				2.46
Time to 2.0 V. Sec.	518	533	530				527
Alloy, Count	0	0	0				0
Deformation, Mils.	36.6	37.1	38.5				37.4
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.31	2.32	2.39				2.34
120	2.27	2.33	2.29				2.30
180	2.22	2.29	2.22				2.24
240	2.13	2.24	2.16				2.18
300	2.12	2.18	2.14				2.15
360	2.09	2.14	2.09				2.11
420	2.06	2.12	2.03				2.07
480	2.03	2.08	2.05				2.05
540							
600							
660 O.C.V.	2.50	2.50					
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 300 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C. 525

DEB LOT NO. SA-1J CURRENT DENSITY 500 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3869	1.3867				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.9	6.7				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.42	2.42	2.43				2.42
Time to 2.0 V. Sec.	462	430	521				471
Alloy, Count	0	0	0				0
Deformation, Mils.	52.6	45.4	43.3				47.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.38	2.39	2.38				2.38
120	2.19	2.12	2.19				2.17
180	2.17	2.17	2.18				2.17
240	2.12	2.14	2.18				2.15
300	2.11	2.12	2.11				2.11
360	2.03	2.03	2.05				2.04
420	2.04	2.03	2.06				2.04
480			2.03				
540							
600 O.C.V.	2.50	2.50	2.45				2.48
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 301 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 500 ma./sq. in.

ACETATE COAT 25/300 .4 HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3864	1.3866				1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	6.4	6.6				6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.32	2.32	2.39				2.41
Time to 2.0 V. Sec.	426	486	483				465
Alloy, Count	0	0	0				0
Deformation, Mils.	50.9	49.6	49.3				49.9
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.37	2.38	2.38				2.38
120	2.14	2.12	2.24				2.17
180	2.17	2.13	2.17				2.15
240	2.10	2.09	2.07				2.09
300	2.07	2.09	2.07				2.08
360	2.04	2.08	2.08				2.07
420	2.02	2.07	2.05				2.05
480		2.02	2.01				
540							
600 O.C.V.	2.50	2.50	2.50				2.50
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 302 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3857	1.3865	1.3866				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.7	6.5	6.6				6.3

Date Pellets Vacuum Dried:

Peak Voltage	2.27	2.32	2.31				2.30
Time to 2.0 V. Sec.	94	110	112				105
Alloy, Count	59	54	50				54
Deformation, Mils.	13.6	14.3	28.2				19.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.13	2.18	2.18				2.16
120	2.03	2.08	2.04				2.05
180	2.04	2.04	2.07				2.05
240	2.02	1.94	2.07				2.01
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 303 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

[redacted]

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/150 .4% HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3869	1.3861				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.9	6.1				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.26	2.28	2.28				2.27
Time to 2.0 V. Sec.	108	92	96				102
Alloy, Count	0	0	0				0
Deformation, Mils.	33.6	29.3	25.6				29.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.17	2.16	2.22				2.18
120	2.03	2.07	2.00				2.03
180	2.01	1.98	2.04				2.01
240	1.92	1.93	1.98				1.94
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 304 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3859	1.3850				1.3858
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	5.9	5.0				5.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.23	2.24	2.27				2.25
Time to 2.0 V. Sec.	105	107	75				96
Alloy, Count	0	0	0				0
Deformation, Mils.	39.7	30.2	32.1				34.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.19	2.14	2.23				2.19
120	2.06	2.02	1.95				2.01
180	1.81	1.99	2.03				1.94
240	1.76	1.47	1.36				1.53
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 305 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 2 T°C. 525

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/300 .4 HNO3

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3862	1.3866				1.3863
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.2	6.6				6.3

Date Pellets Vacuum Dried: _____

Peak Voltage	2.22	2.22	2.18				2.21
Time to 2.0 V. Sec.	80	90	69				80
Alloy, Count	0	0	0				0
Deformation, Mils.	46.2	39.6	40.2				42.0
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.16	2.16	2.14				2.15
120	1.99	1.95	1.94				1.96
180	1.91	1.94	1.90				1.92
240	1.80	1.88	1.82				1.83
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 306 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 3 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma/sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3857	1.3866				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	5.7	6.6				6.5

Date Pellets Vacuum Dried:

Peak Voltage	2.18	2.29	2.19				2.22
Time to 2.0 V. Sec.	118	133	117				123
Alloy, Count	10	3	6				6
Deformation, Mils.	25.0	35.1	39.3				33.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.07	2.17	2.05				2.10
120	1.99	2.10	1.99				2.03
180	1.94	1.88	1.95				1.92
240	1.88	1.83	1.92				1.89
300							
360							
420 O.C.V.	2.50	2.50	2.45				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 307 - ACETATE-COATED ANODE STUDY, CURRENT DENSITY SECTION

BIMETAL NO. 3 T°C 525

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 60 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3875	1.3863				1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	7.5	6.3				6.8

Date Pellets Vacuum Dried: _____

Peak Voltage	2.20	2.21	2.21				2.21
Time to 2.0 V. Sec.	76	85	76				79
Alloy, Count	0	0	0				0
Deformation, Mils.	53.2	33.6	42.6				43.1
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.20	2.22	2.21				2.21
120	1.75	1.70	1.86				1.77
180	1.95	1.84	1.81				1.87
240	1.98	1.92	1.86				1.92
300							
360							
420 O.C.V.	2.50	2.50	2.50				2.50
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

TABLE 308 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3861	1.3860	1.3866				1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.1	6.0	6.6				6.2

Date Pellets Vacuum Dried:

Peak Voltage	3.01	3.01	2.98				3.00
Time to 2.0 V. Sec.	226	196	46				
Alloy, Count	109	101	83				98
Deformation, Mils.	2.1	3.7	8.3				4.7
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	3.01	2.98	2.78				
120	2.97	2.97	2.78				
180	2.94	2.50	2.81				
240	2.75	2.63	2.82				
300	2.81	2.65	2.83				
360	2.79	2.66	2.84				
420	2.81	2.65	2.84				
480	2.81	2.63	2.86				
540	2.83	2.65	2.86				
600	2.84	2.66	2.86				
660	2.84	2.68	2.86				
720	2.83	2.68	2.86				
780	2.20	2.68	2.83				
840	2.30	2.68	2.83				
900	2.30	2.68					
960	2.47	2.70					
1020	2.45	2.74					
1080	2.50	2.76					
1140	shorted	2.78					
1200	out	2.78					
1260		2.78					
1320		2.78					
1380		2.78					
1800		2.78					

Shorted 226 came back 240 sec. 758 shorted came back 781 sec.

196 shorted came back 199 sec.

170 shorted came back 177 sec.

846 sec. shorted out 46 sec. short came back 50 sec.

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TABLE 309 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450

DEB. LOT NO. SA-1J CURRENT DENSITY 0.7 ma./ sq. in.

ACETATE COAT 25/150 .4 HN03

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862	1.3859	1.3861				1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2	5.9	6.1				6.1

Date Pellets Vacuum Dried: _____

Peak Voltage	3.03	2.99	2.94				2.99
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	31	52	21				35
Deformation, Mils.	11.1	18.2	10.9				13.4
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	3.02	2.99	2.94				2.98
120	2.95*	2.98	2.88*				2.94
180	2.89	2.98	2.87*				2.91
240	2.94	2.98	2.86				2.93
300	2.96	2.96	2.86				2.93
360	2.96	2.93	2.86				2.92
420	2.96	2.86	2.86				2.89
480	2.96*	2.84	2.85				2.88
540	2.83	2.81	2.85				2.83
600	2.78	2.81	2.84				2.81
660	2.77	2.83	2.83				2.81
720	2.78	2.86	2.83				2.82
780	2.82	2.84	2.83				2.83
840	2.83	2.84	2.84				2.84
900	2.86	2.84	2.84				2.85
960	2.87	2.92	2.84				2.88
1020	2.87	2.94	2.84				2.88
1080	2.88	2.94	2.84				2.89
1140	2.88	2.94	2.84				2.89
1200	2.88	2.94	2.84				2.89
1260	2.88	2.94	2.84				2.89
1320	2.88	2.94	2.84				2.89
1380	2.88	2.94	2.84				2.89
1440	2.88	2.94	2.84				2.89
1500	2.88	2.94	2.84				2.89

* Noise

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TABLE 310 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860	1.3869	1.3866				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0	6.9	6.6				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.98	2.98	2.98				2.98
Time to 2.0 V. Sec.	640	780	>1500				>1500
Alloy, Count	22	17	31				23
Deformation, Mils.	9.1	5.8	14.1				9.7
Wetting, %	90	90	95				95

	Voltage						
60 Seconds	2.92	2.93	2.94				
120	2.97	2.98	2.98				
180	2.95	2.97	2.98				
240	2.98	2.98	2.98				
300	2.97	2.97	2.98				
360	2.97	2.97	2.98				
420	2.97	2.97	2.98				
480	2.97	2.97	2.98				
540	2.97	2.95	2.98				
600	2.97	2.94	2.98				
660		2.94	2.97				
720		2.90	2.95				
780		2.72 short	2.94				
840		2.63	2.98				
900	2.28	2.20 short	2.98				
960		2.50	2.97				
1020		2.55	2.96				
1080	2.60	short	2.94				
1140	2.45	2.55	2.94				
1200	2.47	2.60	2.93				
1260	2.52	2.50	2.93				
1320	2.72	2.55	2.93				
1380	2.78	2.50	2.93				
1800	2.81	2.79	2.84				

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TABLE 311 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/300 .4% HNO3

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3861	1.3869				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.1	6.9				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.98	3.01	2.97				2.99
Time to 2.0 V. Sec.	>1500	>1500	>1500				>1500
Alloy, Count	16	37	28				27
Deformation, Mils.	7.1	6.7	11.2				8.3
Wetting, %	90	90	90				90

	Voltage						
60 Seconds	2.94	3.01	2.93				2.96
120	2.98	3.00	2.97				2.98
180	2.98	2.99	2.96				2.98
240	2.98	2.98	2.96				2.97
300	2.98	2.98	2.96				2.97
360	2.98	2.98	2.96				2.97
420	2.98	2.98	2.96				2.97
480	2.97	2.98	2.96				2.97
540	2.97	2.98	2.96				2.97
600	2.97	2.97	2.96				2.97
660	2.97	2.97	2.96				2.97
720	2.97	2.96	2.96				2.96
780	2.97	2.94	2.96				2.96
840	2.97	2.93	2.97				2.96
900	2.97	2.92	2.97				2.95
960	2.96	2.89	2.97				2.94
1020	2.96	2.89	2.96				2.94
1080	2.94	2.87	2.96				2.92
1140	2.94	2.85	2.94				2.92
1200	2.94	2.83	2.93				2.91
1260	2.94	2.83	2.91				2.91
1320	2.93	2.84	2.89				2.89
1380	2.93	2.84	2.87				2.88
1440	2.93	2.83	2.87				2.88
1500	2.93	2.83	2.86				2.87

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TABLE 312 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C. 450

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3857	1.3872				1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	5.7	7.2				6.7

Date Pellets Vacuum Dried:

Peak Voltage	2.82	3.00	2.98				2.93
Time to 2.0 V. Sec.	24	42	27				
Alloy, Count	53	41	33				center of c 42
Deformation, Mils.	4.8	7.1	2.2				4.7
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	**	**	**				
120							
180							
240							
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 313 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866	1.3860	1.3866				1.3864
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6	6.0	6.6				6.4

Date Pellets Vacuum Dried: _____

Peak Voltage	2.89	2.92	2.89				2.90
Time to 2.0 V. Sec.	452	1160	467				
Alloy, Count	36	42	78				52
Deformation, Mils.	16.6	19.2	14.1				16.6
Wetting, %	95	95	95				95

	Voltage						
60 Seconds	2.84	2.81	2.84				2.83
120	2.89	2.89	2.88				2.89
180	2.89	2.89	2.89				2.89
240	2.89	2.89	2.89				2.87
300	2.88	2.91	2.89				2.89
360	2.88	2.91*	2.89				2.89
420	2.84	2.86	2.89				2.86
480	**	2.84	**				
540		2.88					
600		2.89					
660		2.91					
720		2.91					
780		2.91					
840		2.92					
900		2.91					
960		2.89					
1020		2.91					
1080		2.91					
1140		2.91					
1200		**					
1260							
1320							
1380							
1440							
1500							

* Noise ** Shorted

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TABLE 314 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3861	1.3874				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.1	7.4				6.6

Date Pellets Vacuum Dried:

Peak Voltage	2.32	2.33	2.30				2.32
Time to 2.0 V. Sec.	70	52	103				75
Alloy, Count	11	19	8				13
Deformation, Mils.	93.6	85.6	83.2				87.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.11	1.85	2.14				2.03
120	1.44	1.24	1.79				1.49
180	1.28	1.24	1.50				1.34
240	1.08	1.06	1.24				1.13
300							
360							
420 O.C.V.	2.25	2.25	2.25				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 315 - ACETATE-COATED ANODE STUDY, PULSE SECTION [redacted]

BIMETAL NO. 2 T°C 600

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/150

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3860	1.3864	1.3872			1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	6.0	6.4	7.2			6.7

Date Pellets Vacuum Dried: _____

Peak Voltage	2.38	2.37	2.35	2.39			2.37
Time to 2.0 V. Sec.	152	156	181	188			169
Alloy, Count	16	0	2	0			5
Deformation, Mils.	124.4	123.6	110.1	118.0			119.0
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	2.17	2.18	2.15	2.24			2.19
120	2.08	2.08	2.13	2.14			2.11
180	1.87	1.94	2.02	2.04			1.97
240	1.40	1.59	1.64	1.78			1.60
300							
360							
420 O.C.V.	2.40	2.40	2.40	2.40			
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 316 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C. 600

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3865	1.3864				1.3865
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	6.5	6.4				6.5

Date Pellets Vacuum Dried: _____

Peak Voltage	2.42	2.43	2.42				2.42
Time to 2.0 V. Sec.	209	176	190				192
Alloy, Count	0	0	0				0
Deformation, Mils.	103.6	94.6	104.2				100.8
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.27	2.26	2.24				2.26
120	2.19	2.18	2.10				2.16
180	2.11	1.98	2.02				2.04
240	1.94	1.88	1.88				1.90
300							
360							
420 O.C.V.	2.40	2.45	2.45				
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 317 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/300 .4% HNO3

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867	1.3875	1.3866				1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7	7.5	6.6				6.9

Date Pellets Vacuum Dried: _____

Peak Voltage	2.45	2.45	2.45				2.45
Time to 2.0 V. Sec.	204	218	228				217
Alloy, Count	0	0	0				0
Deformation, Mils.	129.6	117.3	124.2				124.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.24	2.25	2.24				2.24
120	2.19	2.18	2.18				2.18
180	2.06	2.06	2.07				2.06
240	1.93	1.95	1.96				1.95
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 318 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq.

ACETATE COAT

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3867	1.3857				1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.7	5.7				6.2

Date Pellets Vacuum Dried:

Peak Voltage	2.28	2.27	2.28				2.28
Time to 2.0 V. Sec.	25	20	27				24
Alloy, Count	28	58	34				40
Deformation, Mils.	72.7	87.1	89.0				78.5
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	1.50	1.60	1.55				1.55
120	1.00	1.00	.96				.99
180	.80	.75	.72				.76
240	.63	.55	.53				.57
300							
360							
420 O.C.V.	1.50	1.45	1.25				1.40
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 319 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 600

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT 25/300

LBS. OF FORCE ON CELL

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3863	1.3866	1.3839				1.3856
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.3	6.6	3.9				5.6

Date Pellets Vacuum Dried:

Peak Voltage	2.24	2.22	2.27				2.24
Time to 2.0 V. Sec.	106	160	159				132
Alloy, Count	16	24	28				23
Deformation, Mils.	94.3	100.1	110.6				101.7
Wetting, %	100	100	100				100

	Voltage						
60 Seconds	2.06	2.07	2.08				2.07
120	1.97	2.03	2.03				2.01
180	1.86	1.93	1.96				1.92
240	1.65	1.84	1.87				1.79
300							
360							
420 O.C.V.	2.35	2.35	2.35				2.35
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 320 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450

DEB LOT NO. SA-1J CURRENT DENSITY 856 ma./sq. in. pl

ACETATE COAT *0.7 ma./ sq. in. constant

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3862						1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.2						6.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.45						2.45
Time to 2.0 V. Sec.	45						45
Alloy, Count	18						18
Deformation, Mils.	3.6						3.6
Wetting, %	90						90

	Voltage						
60 Seconds	2.45						2.45
120	Short						
180							
240							
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 321 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY *0.7 ma/sq. in., constant

ACETATE COAT 856 ma./sq. in. pulse

2 sec./30 sec. LBS. OF FORCE ON CELL 50 lbs.

	Test 1	Test 2	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869	1.3871					
Weight, gm.							
Density - gms/cm^3							
Growth, mils.							

Date Pellets Vacuum Dried: _____

	2.50	2.70					
Peak Voltage							
Time to 2.0 V. Sec.	27	1800					
Alloy, Count	29	71					
Deformation, Mils.	1.7	5.6					
Wetting, %	90	90					

60 Seconds	15	Short	Volts 2.40	Sec. 480	Volts 2.69	Sec. 945	Volts 1.80	Sec. 1395	Vol 1.3
120	45		2.33	495	1.55	960 *	2.70	1425	1.6
180	* 60		2.70	525	2.20	975	1.35	*1440	2.6
240	75		2.20	540 *	2.73	1005	1.70	1455	1.3
300	105		1.95	555	1.90	1020 *	2.72	1485	1.7
360	*120		2.69	585	2.13	1035	1.40	*1500	2.6
420	135		1.75	600 *	2.73	1065	1.70	1515	1.3
480	165		1.98	615	1.80	1080 *	2.70	1545	1.8
540	*180		2.68	645	2.22	1090	1.40	*1560	2.6
600	195		1.65	660 *	2.72	1125	1.70	1575	1.3
660	225		1.70	675	1.80	1140 *	2.71	1605	1.7
720	*240		2.67	705	2.12	1155	1.40	*1620	2.6
780	255		1.45	720 *	2.72	1185	1.65	1635	1.3
840	285		1.82	735	1.65	1200 *	2.70	1665	1.7
900	*300		2.68	765	2.22	12.5	1.38	*1680	2.6
960	315		1.57	780*	2.72	1245	1.70	1695	1.3
1020	345		1.85	795	1.63	1260 *	2.69	1725	1.6
1080	*360		2.68	825	1.85	1270	1.38	*1740	2.6
1140	375		1.57	840 *	2.72	1305	1.65	1755	1.3
1200	405		1.77	855	1.55	1320 *	2.71	1785	1.5
1260	*420		2.69	855	1.93	1135	1.35	*1800	2.6
1320	435		1.53	900 *	2.72	1365	1.65		
1380	365		2.00	9.5	1.52	1380 *	2.71		
1440									
1500									

[redacted]

TABLE 322 - ACETATE-COATED ANODE STUDY [redacted]

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY *0.7 ma./sq. in., const.

ACETATE COAT 25/150 .4% HNO_3 856 ma./sq. in. pulse

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870						1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0						6.6

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.27 L - 1.72 H - 2.31 L - 1.78

Peak Voltage	*2.96						*2.95
Time to 2.0 V. Sec.	>1500						>1500
Alloy, Count	31						32
Deformation, Mils.	13.0						1.29
Wetting, %	95						95

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	.50	480 *	2.78	1945	1.83	1425	1.92
120	45	2.27	495	1.92	960 *	2.73	1440 *	2.72
180	*60	2.94	525	1.92		1.73	1455	1.82
240	75	2.21	540 *	2.76	1020 *	2.72	1485	1.92
300	105	2.14	555	1.88	1035	1.73	1500 *	2.68
360	*120	2.96	585	1.92	1065	1.87		
420	135	2.09	600 *	2.73	1080 *	2.73		
480	165	2.09	615	1.87	1090	1.72		
540	*180	2.94	645	1.87	1125	1.82		
600	195	2.11	660 *	2.73	1140 *	2.72		
660	225	2.11	675	1.82	1155	1.68		
720	*240	2.91	705	1.87	1185	1.83		
780	255	2.06	720 *	2.76	1200 *	2.72		
840	285	2.04	735	1.78	1215	1.72		
900	*300	2.86	765	1.87	1245	1.87		
960	315	2.02	780 *	2.73	1260 *	2.72		
1020	345	2.02	795	1.77	1275	1.82		
1080	*360	2.83	825	1.87	1305	1.88		
1140	375	1.96	840 *	2.73	1320 *	2.72		
1200	405	1.95	855	1.77	1335	1.73		
1260	*420	2.78	885	1.82	1365	1.82		
1320	435	1.94	900 *	2.73	1380 *	2.72		
1380	465	1.88	915	1.73	1395	1.87		
1440								
1500								

[redacted]

[illegible] - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in.

ACETATE COAT 25/150 .4% HNO_3 856 ma./sq. in. Pulse

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3860						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.0						

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.34
L - 1.57

Peak Voltage	*2.94						
Time to 2.0 V. Sec.	>1500						
Alloy, Count	32						
Deformation, Mils.	12.4						
Wetting, %	95						

60 Seconds	15	Volts .50	Sec. 480 *	Volts 2.79	Sec. 945	Volts 1.86	Sec. 1395	Volts 1.85
120	45	2.34	495	1.67	960 *	2.71	1425	1.83
180	*60	2.94	525	1.57	975	1.72	1440 *	2.72
240	75	2.26	540 *	2.72	1005	1.83	1455	1.69
300	105	2.16	555	1.57	1020 *	2.73	1485	1.83
360	*120	2.94	585	1.50	1035	1.80	1500 *	2.72
420	135	2.09	600	2.74	1065	1.83		
480	165	2.09	615	1.57	1080 *	2.73		
540	*180	2.94	645	1.67	1090	1.73		
600	195	2.11	660 *	2.76	1125	1.88		
660	225	2.13	675	1.58	1140 *	2.72		
720	*240	2.77	705	1.67	1155	1.83		
780	255	2.03	720 *	2.73	1185	1.92		
840	235	2.00	735	1.57	1200 *	2.72		
900	*300	2.88	765	1.63	1215	1.87		
960	315	1.92	780 *	2.74	1245	1.97		
1020	345	1.90	795	1.55	1260 *	2.72		
1080	*360	2.77	825	1.70	1275	1.87		
1140	375	1.83	840 *	2.73	1305	1.93		
1200	405	1.83	855	1.63	1320 *	2.72		
1260	*420	2.79	885	1.78	1335	1.72		
1320	435	1.72	900 *	2.74	1365	1.87		
1380	465	1.72	915	1.70	1380 *	2.72		
1440								
1500								

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TABLE 324 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C. 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. cons

ACETATE COAT 25/150 .4% HNO_3 .856 ma./sq. in. pulse

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7						

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.31
L - 2.04

Peak Voltage	*2.96						
Time to 2.0 V. Sec.	>1500						
Alloy, Count	33						
Deformation, Mils.	13.2						
Wetting, %	100						

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	.50	480 *	2.76	945	2.22	1395	2.13
120	45	2.31	495	2.09	960 *	2.72	1425	2.11
180	*60	2.94	525	2.13	975	2.18	1440 *	2.72
240	75	2.22	540 *	2.76	1005	2.22	1455	2.12
300	105	2.22	555	2.08	1020 *	2.73	1485	2.13
360	*120	2.96	585	2.10	1035	2.18	1500 *	2.69
420	135	2.12	600 *	2.75	1065	2.23		
480	165	2.15	615	2.12	1080 *	2.72		
540	*180	2.91	645	2.16	1095	2.18		
600	195	2.21	660 *	2.76	1125	2.23		
660	225	2.14	675	2.13	1140 *	2.73		
720	*240	2.91	705	2.17	1155	2.18		
780	255	2.12	720 *	2.73	1185	2.22		
840	285	2.09	735	2.14	1200 *	2.72		
900	*300	2.86	765	2.18	1215	2.19		
960	315	2.09	780 *	2.73	1245	2.22		
1020	345	2.08	795	2.16	1260 *	2.72		
1080	*360	2.81	825	2.15	1275	2.17		
1140	375	2.04	840 *	2.73	1305	2.18		
1200	405	2.08	855	2.18	1320 *	2.72		
1260	*420	2.76	885	2.22	1335	2.14		
1320	435	2.10	900 *	2.73	1365	2.19		
1380	465	2.12	915	2.19	1380 *	2.72		
1440								
1500								

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TABLE 325 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2

T°C 450°C

DEB LOT NO. SA-1J

CURRENT DENSITY *0.7 ma./sq. in.

ACETATE COAT 25/300

856 ma./sq. in. pulse

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3870						1.3867
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0						6.7

Date Pellets Vacuum Dried: _____

Pulse Voltage: H - 2.13, L - 1.43 | H - 2.19, L - 1.56

Peak Voltage	2.94						2.97
Time to 2.0 V. Sec.	>1800						
Alloy, Count	56						55
Deformation, Mils.	6.0						8.4
Wetting, %	90						90

60 Seconds	15	Volts .60	Sec. 480 *	Volts 2.87	Sec. 945	Volts 1.75	Sec. 1395	Volts 1.83
120	45	.20	495	1.85	960 *	2.75	1425	1.88
180	*60	2.85	525	1.85	975	1.38	1440 *	2.72
240	75	1.65	540 *	2.83	1005	1.65	1455	1.85
300	105	2.13	555	1.78	1020 *	2.76	1485	1.83
360	*120	2.94	585	1.78	1035	1.53	1500 *	2.71
420	135	2.11	600 *	2.81	1065	1.68	1515	1.80
480	165	2.09	615	1.67	1080 *	2.74	1545	1.88
540	*180	2.94	645	1.70	1095	1.58	1560 *	2.73
600	195	2.05	660 *	2.83	1125	1.58	1575	1.73
660	225	2.07	576	1.58	1140 *	2.73	1605	1.88
720	*240	2.94	705	1.62	1155	1.60	1620 *	2.72
780	255	2.03	720 *	2.78	1185	1.78	1635	1.87
840	285	2.07	735	1.52	1200 *	2.73	1665	1.88
900	*300	2.94	765	1.55	1215	1.70	1680 *	2.72
960	315	2.00	780 *	2.78	1245	1.88	1695	1.83
1020	345	2.02	795	1.43	1260 *	2.73	1725	1.80
1080	*360	2.94	825	1.53	1275	1.73	1740 *	2.72
1140	375	1.95	840 *	2.76	1305	1.88	1755	1.82
1200	405	1.97	855	1.43	1320 *	2.73	1785	1.88
1260	*420	2.93	885	1.75	1335	1.78	1800 *	2.71
1320	435	1.88	900 *	2.78	1365	1.83	1815	1.70
1380	465	1.90	915	1.38	1380 *	2.73	1845	1.88
1440								
1500								

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TABLE 326 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in.

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7						

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.20
L - 1.82

Peak Voltage	2.98						
Time to 2.0 V. Sec.	1800						
Alloy, Count	67						
Deformation, Mils.	9.1						
Wetting, %	90						

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	.60	480 *	2.72	945	1.93	1395	1.87
120	45	.40	495	2.08	960 *	2.73	1425	1.86
180	*60	2.85	525	1.98	975	1.95	1440 *	2.72
240	75	2.15	540 *	2.78	1005	1.93	1455	1.86
300	105	2.13	555	2.03	1020 *	2.73	1485	1.88
360	*120	2.73	585	1.96	1035	1.96	1500 *	2.73
420	135	2.13	600 *	2.76	1065	1.88	1515	1.87
480	165	2.12	615	2.06	1080 *	2.73	1545	1.87
540	*180	2.98	645	1.96	1095	1.85	1560 *	2.73
600	195	2.12	660 *	2.73	1125	1.88	1575	1.83
660	225	2.13	675	2.03	1140 *	2.72	1605	1.88
720	*240	2.98	705	1.94	1155	1.92	1620 *	2.72
780	255	2.20	720 *	2.76	1185	1.88	1635	1.88
840	285	2.14	735	1.98	1200 *	2.72	1665	1.85
900	*300	2.90	765	1.94	1215	1.83	1680 *	2.73
960	315	2.08	780 *	2.73	1245	1.88	1695	1.85
1020	345	2.03	795	2.03	1260 *	2.73	1725	1.87
1080	*360	2.75	825	1.93	1270	1.92	1740 *	2.73
1140	375	2.08	840 *	2.73	1305	1.82	1755	1.87
1200	405	2.03	855	1.96	1320 *	2.73	1785	1.83
1260	*420	2.75	885	1.93	1335	1.88	1800 *	2.73
1320	435	2.05	900 *	2.73	1365	1.88		
1380	465	2.02	915	1.93	1380 *	2.73		
1440								
1500								

[redacted]

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TABLE 327 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in.

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5						

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.25
L - 1.42

Peak Voltage	2.98						
Time to 2.0 V. Sec.	<180						
Alloy, Count	41						
Deformation, Mils.	10.1						
Wetting, %	95						

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	.50	480 *	2.78	945	1.68	1395	1.48
120	45	2.07	495	1.93	960 *	2.72	1425	1.52
180	*60	2.95	525	1.97	975	1.60	1440 *	2.70
240	75	2.22	540 *	2.78	1005	1.66	1455	1.48
300	105	2.15	555	1.90	1020 *	2.73	1485	1.52
360	*120	2.98	585	1.93	1035	1.63	1500 *	2.71
420	135	2.25	600 *	2.78	1065	1.63	1515	1.50
480	165	2.13	615	1.85	1080 *	2.73	1545	1.48
540	*180	2.08-short	645	1.88	1095	1.58	1560 *	2.69
600	195	2.80	660 *	2.73	1125	1.62	1575	1.46
660	225	1.90	675	1.82	1140 *	2.72	1605	1.47
720	*240	2.80	705	1.83	1155	1.58	1620 *	2.69
780	255	1.70	720 *	2.77	1185	1.58	1535	1.43
840	285	1.75	735	1.78	1200 *	2.72	1665	1.44
900	*300	2.82	765	1.78	1215	1.54	1680 *	2.69
960	315	1.72	780 *	2.76	1245	1.57	1695	1.42
1020	345	1.88	795	1.72	1260 *	2.71	1725	1.43
1080	*360	2.78	825	1.72	1215	1.53	1740 *	2.68
1140	375	1.88	840 *	2.73	1305	1.53	1755	1.43
1200	405	1.93	855	1.68	1320 *	2.71	1785	1.47
1260	435	1.92	900 *	2.76	1365	1.52		
1320	465	1.98	915	1.76	1380 *	2.71		
1380								
1440								
1500								

[redacted]

TABLE 328 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. const

ACETATE COAT 25/300 .4% HNO_3 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3857						1.3862
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.7						6.2

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.16 L - 1.40 H - 2.19 L - 1.29

Peak Voltage	*2.99						*3.00
Time to 2.0 V. Sec.	>1500						>1500
Alloy, Count	23						25
Deformation, Mils.	4.8						9.6
Wetting, %	90						90

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	.12	480 *	2.93	945	1.63	1395	1.48
120	45	2.16	495	1.70	960 *	2.81	1425	1.42
180	*60	2.96	525	1.73	975	1.65	1440 *	2.73
240	75	2.08	540 *	2.93	1005	1.62	1455	1.45
300	105	2.08	555	1.78	1020 *	2.73	1485	1.40
360	*120	2.98	585	1.65	1035	1.60	1500 *	2.70
420	135	2.06	600 *	2.83	1065	1.58		
480	165	2.06	615	1.73	1080 *	2.72		
540	*180	2.95	645	1.68	1095	1.70		
600	195	2.04	660 *	2.83	1125	1.77		
660	225	2.06	675	1.73	1140 *	2.70		
720	*240	2.99	705	1.65	1155	1.68		
780	255	2.03	720 *	2.88	1185	1.65		
840	285	2.02	735	1.73	1200 *	2.78		
900	*300	2.82	765	1.73	1215	1.59		
960	305	2.03	780 *	2.83	1245	1.50		
1020	345	2.00	795	1.73	1260 *	2.73		
1080	*360	2.83	825	1.73	1275	1.52		
1140	375	1.90	840 *	2.89	1305	1.50		
1200	405	1.93	855	1.66	1320 *	2.73		
1260	*420	2.93	870	1.63	1335	1.48		
1320	435	1.88	900 *	2.77	1365	1.47		
1380	465	1.80	915	1.60	1380 *	2.73		
1440								
1500								

[redacted]

[redacted]

TABLE 329 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in.

ACETATE COAT 25/300 .4% HNO_3 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3850						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.							

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.23
L - 1.17

Peak Voltage	*3.01						
Time to 2.0 V. Sec.	>1500						
Alloy, Count	26						
Deformation, Mils	12.6						
Wetting, %	90						

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	.20	480 *	2.86	945	1.25	1395	1.18
120	45	2.23	495	1.68	960 *	2.73	1425	1.33
180	*60	3.01	525	1.55	975	1.40	1440 *	2.72
240	75	2.16	540 *	2.83	1005	1.55	1455	1.22
300	105	2.09	555	1.33	1020 *	2.73	1485	1.30
360	*120	3.01	585	1.63	1035	1.40	1500 *	2.73
420	135	2.08	600 *	2.78	1065	1.21		
480	165	2.09	615	1.40	1080 *	2.73		
540	*180	3.00	645	1.70	1095	1.21		
600	195	2.09	660 *	2.78	1125	1.20		
660	225	2.08	675	1.55	1140 *	2.75		
720	*240	2.95	705	1.72	1155	1.20		
780	255	2.03	720 *	2.75	1185	1.35		
840	285	2.08	735	1.53	1200 *	2.72		
900	*300	2.91	765	1.73	1215	1.17		
960	315	1.98	780 *	2.75	1245	1.30		
1020	345	2.02	785	1.73	1260 *	2.73		
1080	*360	2.91	825	1.65	1275	1.17		
1140	375	1.88	840 *	2.75	1305	1.33		
1200	405	1.83	855	1.55	1320 *	2.73		
1260	*420	2.93	870	1.50	1335	1.17		
1320	435	1.94	900 *	2.75	1365	1.33		
1380	465	1.80	915	1.28	1380	2.73		
1440								
1500								

[redacted]

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TABLE 330 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. const

ACETATE COAT 25/300 .4% HNO_3 856 ma./sq. in pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3879						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.							

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.18
L - 1.30

Peak Voltage	3.00						
Time to 2.0 V. Sec.	>1500						
Alloy, Count	26						
Deformation, Mils.	11.3						
Wetting, %	90						

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	.10	480 *	2.88	945	1.83	1395	1.33
120	45	2.17	495	1.85	960 *	2.73	1425	1.30
180	*60	2.95	525	1.87	975	1.83	1440 *	2.70
240	75	2.18	540 *	2.78	1005	1.70	1455	1.28
300	105	2.09	555	1.75	1020 *	2.72	1485	1.30
360	*120	3.00	585	1.80	1035	1.70	1500 *	2.72
420	135	2.08	600 *	2.78	1065	1.67		
480	165	2.08	615	1.83	1080 *	2.72		
540	*180	2.95	645	1.88	1095	1.52		
600	195	2.08	660 *	2.76	1125	1.45		
660	225	2.10	675	1.88	1140 *	2.72		
720	*240	3.00	705	1.85	1155	1.40		
780	255	2.10	720 *	2.76	1185	1.38		
840	285	2.04	735	1.88	1200 *	2.68		
900	*300	2.97	765	1.92	1215	1.45		
960	315	2.03	780 *	2.73	1245	1.33		
1020	345	2.06	785	1.83	1260 *	2.72		
1080	*360	2.98	825	1.80	1275	1.38		
1140	375	2.02	840 *	2.74	1305	1.30		
1200	405	2.04	855	1.87	1320 *	2.72		
1260	*420	2.98	870	1.85	1335	1.32		
1320	435	2.03	900 *	2.73	1365	1.35		
1380	465	1.93	915	1.88	1380	2.73		
1440								
1500								

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TABLE 331 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. constant

ACETATE COAT 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865	1.3865	1.3867				1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5	6.5	6.7				6.6

Date Pellets Vacuum Dried: _____

Peak Voltage	*2.88	2.95	2.92				*2.92
Time to 2.0 V. Sec.	28	25	40				31
Alloy, Count	Alloy in 31	center of 0	cell 0				10
Deformation, Mils.	10.5	16	0.0				8.8
Wetting, %	Pellet Bowed 80	75	70				Pellet Bowed 70

	Voltage						
60 Seconds 15 sec.	2.00	2.10	2.12				2.07
120	Shorted	Shorted	Shorted				
180							
240							
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 332 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. constar

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866						1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6						6.6

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.25 L - 1.37 H - 2.22 L - 1.35

Peak Voltage	*2.93						*2.94
Time to 2.0 V. Sec.	>1500						>1500
Alloy, Count	41						46
Deformation, Mils.	9.5						8.6
Wetting, %	90						90

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	.55	480 *	2.85	945	1.43	1395	1.42
120	45	2.25	495	1.86	960 *	2.73	1425	1.37
180	*60	2.90	525	1.82	975	1.42	1440 *	2.73
240	75	2.20	540 *	2.81	1005	1.42	1455	1.38
300	105	2.14	555	1.83	1020 *	2.73	1485	1.34
360	*120	2.94	585	1.78	1035	1.42	1500 *	2.73
420	135	2.03	600 *	2.78	1065	1.40		
480	165	2.02	615	1.78	1080 *	2.73		
540	*180	2.94	645	1.71	1095	1.43		
600	195	2.02	660 *	2.78	1125	1.42		
660	225	2.02	675	1.72	1140 *	2.72		
720	*240	2.93	705	1.67	1155	1.42		
780	255	2.01	720 *	2.77	1185	1.42		
840	285	2.00	735	1.63	1200 *	2.72		
900	*300	2.90	765	1.63	1215	1.42		
960	315	2.00	780 *	2.76	1245	1.41		
1020	345	1.93	795	1.58	1260 *	2.71		
1080	*360	2.90	825	1.54	1275	1.42		
1140	375	1.96	840 *	2.74	1305	1.37		
1200	405	1.93	855	1.53	1320 *	2.73		
1260	*420	2.87	885	2.78	1335	1.41		
1320	435	1.88	900 *	2.73	1365	1.37		
1380	465	1.87	915	1.46	1380 *	2.70		
1440								
1500								

TABLE 333 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. const

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.							

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.21
L - 1.38

Peak Voltage	*2.93						
Time to 2.0 V. Sec.	>1500						
Alloy, Count	26						
Deformation, Mils.	8.6						
Wetting, %	90						

60 Seconds	15	.70	480 *	2.88	945	1.70	1395	1.43
120	45	2.20	495	1.88	960 *	2.76	1425	1.48
180	*60	2.93	525	1.83	975	1.68	1440 *	2.73
240	75	2.21	540 *	2.83	1005	1.65	1455	1.38
300	105	2.17	555	1.92	1020 *	2.74	1485	1.48
360	*120	2.93	585	1.90	1035	1.55	1500 *	2.72
420	135	2.16	600 *	2.80	1065	1.62		
480	165	2.16	615	1.96	1080 *	2.74		
540	*180	2.97	645	1.98	1095	1.61		
600	195	2.15	660 *	2.75	1125	1.50		
660	225	2.16	675	1.92	1140 *	2.76		
720	*240	2.96	705	1.93	1155	1.45		
780	255	2.09	720 *	2.77	1185	1.40		
840	285	2.08	735	1.93	1200 *	2.75		
900	*300	2.94	765	1.93	1215	1.43		
960	315	2.14	780 *	2.74	1245	1.53		
1020	345	2.11	795	1.83	1260 *	2.73		
1080	*360	2.93	825	1.88	1275	1.43		
1140	375	2.09	840 *	2.76	1305	1.53		
1200	405	2.08	855	1.70	1320 *	2.74		
1260	*420	2.92	885	1.75	1335	1.50		
1320	435	1.98	900 *	2.76	1365	1.48		
1380	465	2.03	915	1.68	1380 *			
1440								
1500								

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TABLE 334 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 450°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. const

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9						

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.20
L - 1.31

Peak Voltage	*2.94						
Time to 2.0 V. Sec.	>1500						
Alloy, Count	33						
Deformation, Mils.	5.2						
Wetting, %	95						

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	1.10	480 *	2.78	945	1.58	1395	1.32
120	45	2.20	495	1.87	960 *	2.72	1425	1.31
180	*60	2.93	525	1.85	975	1.56	1440 *	2.72
240	75	2.13	540 *	2.75	1005	1.48	1455	1.31
300	105	2.10	555	1.87	1020	2.73	1485	1.28
360	*120	2.94	585	1.86	1035	1.46	1500 *	2.71
420	135	2.08	600 *	2.77	1065	1.43		
480	165	2.10	615	1.88	1080 *	2.71		
540	*180	2.96	645	1.88	1095	1.40		
600	195	2.08	660 *	2.73	1125	1.38		
660	225	2.03	675	1.88	1140 *	2.73		
720	*240	2.94	705	1.88	1155	1.35		
780	255	2.04	720 *	2.73	1185	1.33		
840	285	2.03	735	1.83	1200 *	2.72		
900	*300	2.94	765	1.78	1215	1.35		
960	315	2.03	780 *	2.73	1245	1.33		
1020	345	2.03	795	1.83	1260 *	2.72		
1080	*360	2.83	825	1.78	1275	1.33		
1140	375	1.96	840 *	2.73	1305	1.33		
1200	405	1.92	855	1.73	1320 *	2.73		
1260	*420	2.79	885	1.68	1335	1.33		
1320	435	1.92	900 *	2.73	1365	1.32		
1380	465	1.87	915	1.60	1380 *	2.72		
1440								
1500								

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TABLE 335 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in.

ACETATE COAT 856 ma./sq. in. pul

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867						1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7						6.9

Date Pellets Vacuum Dried: _____

Pulse Voltage: H - 2.50 L - 1.14 H - 2.50 L - 1.12

Peak Voltage	2.90						2.88
Time to 2.0 V. Sec.	1661						1775
Alloy, Count	52						43
Deformation, Mils.	106.1						107.7
Wetting, %	100						100

		Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	2.50	480	2.19	945	1.96	1395	1.60
120	45	2.09	495	1.42	960 *	2,36	1425	1.65
180	* 60	2.68	525	1.65	975	1.97	1440 *	2.13
240	75	2.02	540 *	2.23	1005	1.93	1455	1.80
300	105	2.11	555	1.78	1020 *	2.33	1485	1.65
360	*120	2.71	585	1.78	1035	1.92	1500 *	2.15
420	135	2.20	600 *	2.36	1065	1.87	1515	1.95
480	165	1.83	615	1.78	1080 *	2.28	1545	1.80
540	*180	2.61	645	1.72	1095	1.87	1560 *	2.10
600	195	1.88	660 *	2.33	1125	1.78	1575	1.80
660	225	1.94	675	1.72	1140 *	2.23	1605	1.82
720	*240	2.56	705	1.67	1155	1.76	1620 *	2.02
780	255	1.97	720 *	2.31	1185	1.73	1635	
840	285	1.93	735	1.14	1200 *	2.22	1665	
900	*300	2.44	765	1.66	1215	1.72	1680 *	
960	315	1.88	780 *	2.31	1245	1.69	1695	
1020	345	1.72	795	1.14	1260 *	2.21	1725	
1080	*360	2.28	825	1.18	1275	1.72	1740*	
1140	375	1.63	840 *	2.32	1305	1.67	1755	
1200	405	1.63	855	1.80	1320 *	2.09	.785	
1260	*420	2.12	885	1.91	1335	1.65	1800	
1320	435	1.65	900 *	2.36	1365	1.63		
1380	465	1.60	915	1.85	1380	2.18		
1440								
1500								

[redacted]

[redacted]

TABLE 336 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. c

ACETATE COAT 856 ma./sq. in. p

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in. 1.	1.3870						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.0						

Date Pellets Vacuum Dried: _____ Pulse H- L-

Peak Voltage	290						
Time to 2.0 V. Sec.	>1800						
Alloy, Count	53						
Deformation, Mils.	113.0						
Wetting, %	100						

		Volts	Sec.	Volts	Sec.	Volts	Sec.	
60 Seconds	15	2.50	* 480	2.43	945	1.68	1395	1.45
120	45	1.92	495	1.78	960 *	2.41	1425	1.43
180	*60	2.64	525	1.77	975	1.70	1440 *	2.23
240	75	1.88	* 540	2.44	1005	1.71	1455	1.70
300	105	1.82	555	1.78	1020 *	2.38	1485	1.25
360	*120	2.71	585	1.73	1035	1.82	1500 *	2.25
420	135	1.81	* 600	2.43	1065	1.73	1515	1.20
480	165	1.81	615	1.72	1080 *	2.37	1545	1.15
540	*180	2.63	645	1.68	1095	1.71	1560 *	2.21
600	195	1.81	* 660	2.42	1125	1.71	1575	1.12
660	225	1.79	675	1.63	1140 *	2.34	1605	1.10
720	*240	2.52	705	1.63	1155	1.72	1620 *	2.19
780	255	1.80	* 720	2.38	1185	1.68	1635	1.04
840	285	1.83	735	1.62	1200 *	2.31	1665	1.03
900	*300	2.48	765	1.58	1215	1.66	1680 *	2.18
960	315	1.81	* 780	2.37	1245	1.63	1695	1.01
1020	345	1.79	795	1.62	1260 *	2.38	1725	.95
1080	*360	2.46	825	1.56	1275	1.63	1740 *	2.14
1140	375	1.85	* 840	2.36	1305	1.58	1755	.93
1200	405	1.83	855	1.56	1320 *	2.25	1785	.92
1260	*420	2.44	885	1.58	1335	1.53	1800 *	2.11
1320	435	1.83	* 900	2.36	1365	1.52		
1380	465	1.82	915	1.60	1380 *	2.23		
1440								
1500								

[redacted]

TABLE 337 - ACETATE-COATED ANODE [redacted] SECTION

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. const

ACETATE COAT 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9						

Date Pellets Vacuum Dried: _____

Pulse H-250
L-1.3

Peak Voltage	2.83						
Time to 2.0 V. Sec.	1684						
Alloy, Count	23						
Deformation, Mils.	104.0						
Wetting, %	100						

		Volts	Sec.	Volts	Sec.	Volts	Sec.	
60 Seconds	15	2.50	* 480	2.47	945	1.43	1395	1.67
120	45	1.97	495	1.87	960 *	2.21	1425	1.67
180	* 60	2.56	525	1.83	975	1.37	1440 *	2.21
240	75	2.07	* 540	2.43	1005	1.37	1455	1.66
300	105	1.98	555	1.78	1020 *	2.17	1485	1.65
360	*120	2.64	585	1.72	1.35	1.37	1500 *	2.19
420	135	1.97	* 600	2.37	1065	1.44	1515	1.64
480	165	1.87	615	1.68	1080 *	2.27	1545	1.61
540	*180	2.63	645	1.69	1095 *	1.58	1560 *	2.16
600	195	1.85	* 666	2.38	1125	1.70	1575	1.58
660	225	1.72	675	1.68	1140 *	2.31	1605	1.46
720	*240	2.61	705	1.68	1155	1.78	1620 *	2.08
780	255	1.90	* 720	2.35	1185	1.70	1635	1.40
840	285	1.72	735	1.62	1200 *	2.26	1665	1.30
900	*300	2.59	765	1.58	1215	1.63	1680 *	2.00
960	315	1.87	* 780	2.36	1245	1.61	1695	
1020	345	1.83	795	1.55	1260 *	2.26	1725	
1080	*360	2.53	825	1.52	1275	1.63	1740 *	
1140	375	1.38	* 840	2.28	1305	1.63	1755	
1200	405	1.83	855	1.45	1320 *	2.05	1785	
260	*420	2.51	885	1.48	1335	1.68	1800 *	
1320	435	1.88	* 900	2.22	1365	1.66		
1380	465	1.89	915	1.40	1385	2.23		
1440								
1500								

[redacted]

TABLE 338 - ACETATE-COATED ANODE STUDY, PULSE SECTION [redacted]

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. const

ACETATE COAT 25/150 .4% HNO3 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872	1.3866	1.3869				1.3869
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2	6.6	6.9				6.9

Date Pellets Vacuum Dried: _____ Pulse H - 2.21,2.27,2.32 H - 2.2
L - 1.16,1.27,1.20 L - 1.1

Peak Voltage	*2.93	2.93	2.93				*2.93
Time to 2.0 V. Sec.	536	488	476				500
Alloy, Count	28	23	39				30
Deformation, Mils.	100.1	113.2	103.6				105.6
Wetting, %	100	100	100				100

		Voltage						
60 Seconds	15	2.13	2.27	2.27				2.22
120	45	2.21	2.18	2.32				2.24
180	* 60	2.72	2.65	2.60				2.66
240	75	2.13	2.13	2.08				2.11
300	105	2.10	2.04	2.04				2.08
360	*120	2.61	2.44	2.50				2.53
420	135	1.98	1.88	1.82				1.89
480	165	1.95	1.80	1.71				1.82
540	*180	2.50	2.46	2.39				2.45
600	195	1.88	1.66	1.66				1.73
660	225	1.71	1.63	1.58				1.64
720	*240	2.33	2.31	2.31				2.32
780	255	1.61	1.55	1.50				1.55
840	285	1.53	1.58	1.42				1.51
900	*300	2.22	2.20	2.16				2.19
960	315	1.47	1.48	1.29				1.41
1020	345	1.43	1.43	2.09				1.37
1080	*360	2.17	2.15	1.31				2.14
1140	375	1.40	1.38	1.29				1.36
1200	405	1.33	1.36	2.03				1.33
1260	*420	2.13	2.07	1.24				2.08
1320	435	1.27	1.25	1.20				1.25
1380	465	1.23	1.22					1.22
1440	*480	2.05	2.01					2.02
1500	495	2.17						
	525	1.16						
	*540	1.98						

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TABLE 339 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600°C

EB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in. constar

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867						1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.7						7.2

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.36 H - 2.45
L - 1.43 L - 1.29

Peak Voltage	2.92						
Time to 2.0 V. Sec.	786						
Alloy, Count	46						36
Deformation, Mils.	74.1						68.2
Wetting, %	100						100

		Volts	Sec.					
60 Seconds	15	2.36	480	2.39				
120	45	2.25	495	1.93				
180	*60	2.91	525	1.83				
240	75	2.25	540 *	2.29				
300	105	2.18	555	1.80				
360	*120	2.88	585	1.78				
420	135	2.16	600 *	2.23				
480	165	2.15	615	1.71				
540	*180	2.87	645	1.62				
600	195	2.14	660 *	2.12				
660	225	2.13	675	1.53				
720	*240	2.75	705	1.47				
780	255	2.12	720 *	2.04				
840	285	2.13	735	1.50				
900	*300	2.68	765	1.43				
960	315	2.13	780 *	2.00				
1020	345	2.12	795					
1080	*360	2.58	825					
1140	375	2.09	840 *					
1200	405	2.06	855					
1260	*420	2.48	855					
1320	435	2.03	990 *					
1380	465	1.96	915					
1440								
1500								

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TABLE 340 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in. constant

ACETATE COAT 25/300 856 ma./sq/ in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2						

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.50
L - 1.20

Peak Voltage	2.90						
Time to 2.0 V. Sec.	1602						
Alloy, Count	23						
Deformation, Mils.	63.3						
Wetting, %	100						

	Volts	Sec.	Volts	Sec.	Volts	Sec.	Volts
60 Seconds	15	2.50	* 480	2.47	945	1.46	1395	1.20
120	45	2.19	495	1.90	960 *	2.18	1425	1.25
180	* 60	2.87	525	1.84	975	1.43	1440 *	2.03
240	75	2.18	* 540	2.43	1005	1.41	1455	1.26
300	105	2.16	555	1.83	1020 *	2.16	1485	1.25
360	*120	2.82	585	1.78	1035	1.38	1500 *	2.02
420	135	2.14	* 600	2.38	1065	1.37	1515	1.26
480	165	2.14	615	1.76	1080 *	2.12	1545	1.27
540	*180	2.78	645	1.72	1095	1.33	1560 *	2.01
600	195	2.13	* 660	2.36	1125	1.32	1575	1.26
660	225	2.13	675	1.70	1140 *	2.09	1605	
720	*240	2.73	705	1.68	1155	1.31	1620 *	
780	255	2.11	* 720	2.31	1185	1.28	1635	
840	285	2.11	735	1.66	1200 *	2.08	1665	
900	*300	2.68	765	1.63	1215	1.25	1680 *	
960	315	2.09	* 780	2.28	1245	1.27	1695	
1020	345	2.08	795	1.62	1260 *	2.07	1725	
1080	*360	2.62	825	1.58	1275	1.28	1740 *	
1140	375	2.04	* 840	2.23	1305	1.28	1755	
1200	405	2.02	855	1.54	1320 *	2.06	1785	
[illegible]	*420	2.56	885	1.51	1335	1.25	1800 *	
1320	435	2.00	* 900	2.21	1365	1.20		
1380	465	1.95	915	1.48	1380 *	2.06		
1440								
1500								

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TABLE 341 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. consta

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3876						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.6						

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.50
L - 1.25

Peak Voltage	2.93						
Time to 2.0 V. Sec.	781						
Alloy, Count	38						
Deformation, Mils.	67.2						
Wetting, %	100						

		Volts	Sec.	Volts				
60 Seconds	15	2.50	* 480	2.33				
120	45	2.25	495	1.93				
180	* 60	2.89	525	1.90				
240	75	2.22	* 540	2.28				
300	105	2.16	555	1.80				
360	*120	2.91	585	1.72				
420	135	2.14	* 600	2.21				
480	165	2.13	615	1.68				
540	*180	2.87	645	1.63				
600	195	2.13	* 660	2.13				
660	225	2.14	675	1.53				
720	*240	2.82	705	1.60				
780	255	2.13	* 720	2.03				
840	285	2.12	735	1.30				
900	*300	2.67	765	1.25				
960	315	2.18	* 780	2.01				
1020	345	2.11	795					
1080	*360	2.58	825					
1140	375	2.11	* 840					
1200	405	2.03	855					
[illegible]0	*420	2.43	885					
[illegible]0	435	2.02	* 900					
1380	465	1.95	915					
1440								
1500								

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TABLE 342 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. cons

ACETATE COAT 25/300 .4% HNO3 856 ma./sq. in. puls

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3858						1.3868
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	5.8						6.8

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.32 L - 1.05 H - 2.3 L - 1.2

Peak Voltage	*2.93						*2.91
Time to 2.0 V. Sec.	1380						1419
Alloy, Count	20						27
Deformation, Mils.	129.3						117
Wetting, %	100						100

		Voltage					
60 Seconds	15	2.25	* 480	2.16	945	1.18	1395
120	45	2.32	495	1.60	960 *	2.13	1425
180	* 60	2.82	525	1.48	975	1.17	1440 *
240	75	2.25	* 540	2.16	1005	1.16	1455
300	105	2.20	555	1.45	1020 *	2.12	1485
360	*120	2.77	585	1.44	1035	1.15	1500 *
420	135	2.13	* 600	2.16	1065	1.17	
480	165	2.11	615	1.38	1080 *	2.12	
540	*180	2.68	645	1.32	1095	1.15	
600	195	2.09	* 660	2.16	1125	1.13	
660	225	2.09	675	1.30	1140 *	2.10	
720	*240	2.53	705	1.28	1155	1.10	
780	255	2.06	* 720	2.17	1185	1.04	
840	285	2.04	735	1.25	1200 *	2.09	
900	*300	2.43	765	1.26	1215	1.09	
960	305	2.02	* 780	2.16	1245	1.05	
1020	345	2.00	795	1.24	1260 *	2.06	
1080	*360	2.31	825	1.23	1275	1.07	
1140	375	1.98	* 840	2.13	1305	1.06	
1200	405	1.96	855	1.20	1320 *	2.03	
1260	*420	2.24	870	1.18	1335	1.09	
1320	435	1.90	* 900	2.13	1365	1.13	
1380	465	1.84	915	1.18	1380 *	2.00	
1440							
1500							

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TABLE 343 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. constai

CETATE COAT 25/300 .4% HNO3 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3869						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.							

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.30
L - 1.27

Peak Voltage	*2.88						
Time to 2.0 V. Sec.	1510						
Alloy, Count	42						
Deformation, Mils.	121.6						
Wetting, %	100						

		Voltage						
60 Seconds	15	2.25	* 480	2.33	945	1.29	1395	1.28
120	45	2.30	495	1.63	960 *	2.24	1425	1.32
180	* 60	2.86	525	1.57	975	1.28	1440 *	2.10
240	75	2.24	* 540	2.21	1005	1.33	1455	1.37
300	105	2.19	555	1.50	1020 *	2.23	1485	1.28
360	*120	2.85	585	1.45	1035	1.27	1500 *	2.02
420	135	2.16	* 600	2.17	1065	133		
480	165	2.14	615	1.40	1080 *	2.21		
540	*180	2.81	645	1.30	1095	1.31		
600	195	2.12	* 660	2.24	1125	1.38		
660	225	2.09	675	1.41	1140 *	2.21		
720	*240	2.60	705	1.25	1155	1.38		
780	255	2.17	* 720	2.26	1185	1.40		
840	285	2.10	735	1.33	1200 *	2.22		
900	*300	2.54	765	1.38	1215 *	1.53		
960	305	2.03	* 780	2.28	1245	1.58		
1020	345	2.03	785	1.32	1260 *	2.20		
1080	*360	2.43	825	1.38	1275	1.46		
1140	375	1.98	* 840	2.25	1305	1.39		
1200	405	1.92	855	1.29	1320 *	2.17		
1260	*420	2.36	870	1.33	1335	1.33		
20	435	1.80	* 900	2.25	1365	1.40		
1380	465	1.70	915	1.27	1380	2.16		
1440								
1500								

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TABLE 344 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 2 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. constan

ACETATE COAT 25/300 .4% HNO3 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.							

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.50
L - 1.33

Peak Voltage	*2.93						
Time to 2.0 V. Sec.	1367						
Alloy, Count	20						
Deformation, Mils.	100.1						
Wetting, %	100						

		Voltage						
60 Seconds	15	2.37	* 480	2.43	945	1.37	1395	
120	45	2.50	495	1.92	960 *	2.18	1425	
180	* 60	2.93	525	1.77	975	1.42	1440 *	
240	75	2.13	* 540	2.34	1005	1.38	1455	
300	105	2.18	555	1.73	1020 *	2.18	1485	
360	*120	2.88	585	1.65	1035	1.42	1500 *	
420	135	2.15	* 600	2.29	1065	1.42		
480	165	2.14	615	1.63	1080 *	2.18		
540	*180	2.84	645	1.53	1095	1.44		
600	195	2.15	* 660	2.24	1125	1.43		
660	225	2.13	675	1.53	1140 *	2.13		
720	*240	2.75	705	1.45	1155	1.42		
780	255	2.13	* 720	2.23	1185	1.32		
840	285	2.04	735	1.45	1200 *	2.11		
900	*300	2.68	765	1.43	1215	1.42		
960	315	2.11	* 780	2.22	1245	1.38		
1020	345	2.09	785	1.40	1260 *	2.08		
1080	*360	2.60	825	1.42	1275	1.38		
1140	375	2.08	* 840	2.23	1305	1.37		
1200	405	2.03	855	1.42	1320 *	2.04		
60	*420	2.55	870	1.38	1335	1.35		
1320	435	2.02	* 900	2.21	1365	1.33		
1380	465	1.95	915	1.41	1380			
1440								
1500								

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TABLE 345 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 600°C

EB LOT NO. SA-1J CURRENT DENSITY 0.7 ma./sq. in. constant

ACETATE COAT 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3866						1.3866
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.6						6.6

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.33 L - 1.00 H - 2.30 L - 1.07

Peak Voltage	*2.92						*2.88
Time to 2.0 V. Sec.	795						789
Alloy, Count	32						45
Deformation, Mils.	103.4						89
Wetting, %	100						100

		Voltage						
60 Seconds	15	2.33	* 480	2.38	945		1395	
120	45	2.19	495	1.66	960 *		1425	
180	* 60	2.86	525	1.56	975		1440 *	
240	75	2.11	* 540	2.31	1005		1455	
300	105	2.07	555	1.42	1020 *		1485	
360	*120	2.87	585	1.33	1035		1500 *	
420	135	2.03	* 600	2.27	1065			
480	165	2.02	615	1.22	1080 *			
540	*180	2.84	645	1.18	1095			
600	195	1.93	* 660	2.18	1125			
660	225	1.97	675	1.09	1140 *			
720	*240	2.79	705	1.08	1155			
780	255	1.93	* 720	2.11	1185			
840	285	1.91	735	1.00	1200 *			
900	*300	2.58	765	1.02	1215			
960	315	1.92	* 780	2.02	1245			
1020	345	1.88	795		1260 *			
1080	*360	2.43	825		1275			
1140	375	1.80	* 840		1305			
1200	405	1.83	855		1320 *			
1260	*420	2.44	885		1335			
1320	435	1.78	* 900		1365			
1380	465	1.77	915		1380 *			
1440								
1500								

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TABLE 346 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. consta

ACETATE COAT 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.5						

Date Pellets Vacuum Dried: _____. Pulse Voltage: H - 2.31
L - 1.12

Peak Voltage	*2.87						
Time to 2.0 V. Sec	755						
Alloy, Count	76						
Deformation, Mils.	79.4						
Wetting, %	100						

		Voltage						
60 Seconds	15	2.31	* 480	2.38				
120	45	2.21	495	1.63				
180	* 60	2.53	525	1.58				
240	75	2.11	* 540	2.29				
300	105	2.08	555	1.63				
360	*120	2.58	585	1.43				
420	135	2.02	* 600	2.23				
480	165	2.03	615	1.42				
540	*180	2.69	645	1.43				
600	195	1.92	* 660	2.10				
660	225	1.87	675	1.23				
720	*240	2.63	705	1.17				
780	255	1.72	* 720	2.02				
840	285	1.68	735	1.12				
900	*300	2.63						
960	315	1.62						
1020	345	1.63						
1080	*360	2.46						
1140	375	1.63						
1200	405	1.67						
1260	*420	2.42						
1320	435	1.66						
1380	465	1.63						
1440								
1500								

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TABLE 347 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 600°C

B LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. constant

ACETATE COAT 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3868						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.8						

Date Pellets Vacuum Dried: _____ Pulse Voltage H - 2.25
L - 1.10

Peak Voltage	*2.85						
Time to 2.0 V. Sec.	818						
Alloy, Count	26						
Deformation, Mils.	84.3						
Wetting, %	100						

		Voltage					
60 Seconds	15	2.20	* 480	2.27			
120	45	2.25	495	1.46			
180	* 60	2.74	525	1.36			
240	75	2.28	* 540	2.23			
300	105	2.18	555	1.21			
360	*120	2.65	585	1.18			
420	135	2.07	* 600	2.22			
480	165	2.02	615	1.26			
540	*180	2.59	645	1.23			
600	195	1.81	* 660	2.18			
660	225	1.85	675	1.23			
720	*240	2.44	705	1.18			
780	255	1.67	* 720	2.11			
840	285	1.68	735	1.16			
900	*300	2.38	765	1.12			
960	315	1.60	* 780	2.06			
1020	345	1.53	795	2.10			
1080	*360	2.35	825				
1140	375	1.50	* 840				
00	405	1.53	855				
1260	*420	2.23	885				
1320	435	1.48	* 900				
1380	465	1.48	915				
1440							
1500							

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TABLE 348 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. constar

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3865						1.3861
Weight, gm.							
Density - gms/cm^3							
Growth, mils.							

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.20 H - 2.25
L - .93 L - 1.05

Peak Voltage	*283						*2.84
Time to 2.0 V. Sec.	1362						1209
Alloy, Count	12						23
Deformation, Mils.	119.5						117.3
Wetting, %	100						100

		Voltage					
60 Seconds	15	2.20	* 480	2.64	945	1.58	1395
120	45	2.13	495	1.99	960 *	2.21	1425
180	* 60	2.83	535	1.97	975	1.53	1440 *
240	75	2.08	* 540	2.62	1005	1.48	1455
300	105	2.04	555	1.97	1020 *	2.17	1485
360	*120	2.82	585	1.95	1035	1.43	1500 *
420	135	2.03	* 600	2.53	1065	1.37	
480	165	2.02	615	1.93	1080 *	2.12	
540	*180	2.81	645	1.90	1095	1.23	
600	195	2.02	* 660	2.55	1125	1.17	
660	225	2.02	675	1.90	1140 *	2.09	
720	*240	2.78	705	1.87	1155	1.14	
780	255	1.98	* 720	2.42	1185	1.08	
840	285	1.98	735	1.83	1200 *	2.06	
900	*300	2.77	765	1.79	1215	1.07	
960	315	1.97	* 780	2.36	1245	1.00	
1020	345	1.97	785	1.74	1260 *	2.03	
1080	*360	2.71	825	1.71	1275	.99	
1140	375	2.01	* 840	2.29	1305	2.00	
1200	405	2.02	855	1.70	1320 *	.95	
360	*420	2.72	885	1.63	1335	2.00	
1320	435	2.01	* 900	2.23	1365		
1380	465	1.98	915	1.62	1380 *		
1440							
1500							

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TABLE 349 - ACETATE-COATED ANODE STUDY, PULSE STUDY

BIMETAL NO. 3 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. constan

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3867						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.							

Date Pellets Vacuum Dried: _____ Pulse Voltage: H - 2.23
L - 1.03

Peak Voltage	*2.86						
Time to 2.0 V. Sec.	1210						
Alloy, Count	41						
Deformation, Mils.	112.1						
Wetting, %	100						

		Voltage					
60 Seconds	15	2.23	* 480	2.32	945	1.18	1395
120	45	2.11	495	1.83	960 *	2.09	1425
180	* 60	2.78	525	1.80	975	1.22	1440 *
240	75	2.08	* 540	2.28	1005	1.18	1455
300	105	2.06	555	1.78	1020 *	2.08	1485
360	*120	2.81	585	1.78	1035	1.17	1500 *
420	135	2.04	* 600	2.23	1065	1.10	
480	165	2.02	615	1.63	1080 *	2.04	
540	*180	2.78	645	1.53	1095	1.11	
600	195	2.02	* 660	2.14	1125	1.08	
660	225	2.02	675	1.50	1140 *	2.02	
720	*240	2.74	705	1.35	1155	1.07	
780	255	2.01	* 720	2.09	1185	1.03	
840	285	2.00	735	1.33	1200 *	2.01	
900	*300	2.68	765	1.30	1215		
960	315	1.98	* 780	2.08	1245		
1020	345	1.96	795	1.33	1260 *		
1080	*360	2.61	825	1.27	1275		
1140	375	1.97	* 840	2.09	1305		
1200	405	1.90	855	1.27	1320 *		
30	*420	2.44	885	1.22	1335		
1320	435	1.93	* 900	2.08	1365		
1380	465	1.93	915	1.22	1380 *		
1440							
1500							

[redacted]

[redacted]

TABLE 350 - ACETATE-COATED ANODE STUDY, PULSE SECTION

BIMETAL NO. 3 T°C 600°C

DEB LOT NO. SA-1J CURRENT DENSITY * 0.7 ma./sq. in. constan

ACETATE COAT 25/300 856 ma./sq. in. pulse

2 sec./30 sec. pulse LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3872						
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.2						

Date Pellets Vacuum Dried: _____. Pulse Voltage: H - 2.32
L - 1.20

Peak Voltage	*2.92						
Time to 2.0 V. Sec.	1055						
Alloy, Count	16						
Deformation, Mils.	120 3						
Wetting, %	100						

		Voltage						
60 Seconds	15	2.32	* 480	2.67	945	1.31	1395	
120	45	2.22	495	2.02	960 *	2.11	1425	
180	* 60	2.92	525	2.00	975	1.23	1440 *	
240	75	2.18	* 540	2.64	1005	1.20	1455	
300	105	2.15	555	1.96	1020 *	2.00	1485	
360	*120	2.91	585	1.93	1035	1.16	1500 *	
420	135	2.12	* 600	2.59	1065			
480	165	2.11	615	1.90	1080 *			
540	*180	2.85	645	1.88	1095			
600	195	2.12	* 660	2.50	1125			
660	225	2.09	675	1.88	1140 *			
720	*240	2.81	705	1.80	1155			
780	255	2.08	* 720	2.44	1185			
840	285	2.08	735	1.70	1200 *			
900	*300	2.75	765	1.68	1215			
960	315	2.06	* 780	2.37	1245			
1020	345	2.07	795	2.61	1260 *			
1080	*360	2.72	825	1.58	1275			
1140	375	2.06	* 840	2.24	1305			
[illegible]	405	2.05	855	1.46	1320			
1200	*420	2.18	885	1.41	1335			
1320	435	2.04	* 900	2.16	1365			
1380	465	2.04	915	1.33	1380 *			
1440								
1500								

[redacted]

TABLE 351 - BATTERY AND CELL TEST [redacted]

BATTERY AND CELL TEST

C - DENOTES CELL
B - DENOTES BATTERY

BATTERY OR CELL NO.	B-1	B-2	B-3	B-4	AVERAGE REMARKS
BIMETAL WEIGHT - GMS.	1.240	1.240	1.240	1.240	
ACETATE DIP NUMBER	--	--	--	--	None
TREATMENT	--	--	--	--	None
DEB BLEND NO.	SA-1C	SA-1C	SA-1C	SA-1C	
DEB WEIGHT - GMS.	2.375	2.375	2.375	2.375	
END HEAT PELLET WEIGHT-GMS.	4.380	4.380	4.380	4.380	3 pellets/end
CELL HEAT PELLET WEIGHT-GMS.	4.380	4.380	4.380	4.380	218.1 cal/gm. of cell
STACK PRESSURE	50 lbs.	50 lbs.	75 lbs.	75 lbs.	
TEMPERATURE °C	-65	-65	160	160	
CURRENT DRAIN ma./SQ. IN. @ V.	856	856	0.7	0.7	
P. V.	11.5	11.3	13.80	13.77	
2.50 V. - SECONDS					
2.25 V. - SECONDS					
2.00 V. - SECONDS					
1.90 V. - SECONDS					
12.0 V. - SECONDS			665	658	
11.0 V. - SECONDS			761	751	
10.0 V. - SECONDS	5	5	777	768	
9.0 V. - SECONDS					
OCV. -	13.3	6 minutes 10.0			
ALLOY	Neg.	Neg.	Neg.	Neg.	
NOISE	None	None	None	None	
WETTING %					
ANODE APPEARANCE					
PELLET DEFORMATION - DIA. Mils.	-0.6		3.1	6.3	

TABLE 352 - BATTERY AND CELL TEST [redacted]

BATTERY AND CELL TEST

C - DENOTES CELL
B - DENOTES BATTERY

BATTERY OR CELL NO.	B-77	B-78	B-79	B-80	AVERAGE REMARKS
BIMETAL WEIGHT - GMS.	1.240	1.240	1.240	1.240	
ACETATE DIP NUMBER	--	--	--	--	None
TREATMENT	--	--	--	--	None
DEB BLEND NO.	SA-3A	SA-3A	SA-3A	SA-3A	
DEB WEIGHT - GMS.	2.375	2.375	2.375	2.375	
END HEAT PELLET WEIGHT-GMS.	4.380	4.380	4.380	4.380	3 pellets/end
CELL HEAT PELLET WEIGHT-GMS.	4.380	4.380	4.380	4.380	218.1 cal./gr of cell
STACK PRESSURE	-65	-65	+160	+160	
TEMPERATURE °C	597	597	0.7	0.7	
CURRENT DRAIN ma./SQ. IN. @ V.	9.8	10.1	13.65	13.61	
P. V.					
2.50 V. - SECONDS					
2.25 V. - SECONDS					
2.00 V. - SECONDS					
1.90 V. - SECONDS					
12.0 V. - SECONDS			545	537	
11.0 V. - SECONDS			572	563	
10.0 V. - SECONDS	0	1	589	580	
9.0 V. - SECONDS					
OCV. -	6 min. 8.2	6 min. 8.6			
ALLOY	0	0	0	0	
NOISE	0	0	0	0	
WETTING %					
ANODE APPEARANCE					
PELLET DEFORMATION - DIA. Mils.		-6.8		-10.0	

TABLE 353 - BATTERY AND CELL TEST [redacted]

BATTERY AND CELL TEST

C - DENOTES CELL
B - DENOTES BATTERY

BATTERY OR CELL NO.	B-17	B-13	B-14	B-18	AVERAGE REMARKS
BIMETAL WEIGHT - GMS.	1.310	1.310	1.310	1.310	
ACETATE DIP NUMBER	None	None	None	None	
TREATMENT	Bimetal Uncleaned	Bimetal Uncleaned	Bimetal Cleaned	Bimetal Cleaned	
DEB BLEND NO.	SA-1F	SA-1F	SA-1F	SA-1F	
DEB WEIGHT - GMS.	2.385	2.385	2.385	2.385	
END HEAT PELLET WEIGHT-GMS.	(4) 4.185	(4) 4.185	(4) 4.185	(4) 4.185	
CELL HEAT PELLET WEIGHT-GMS.	4.185	4.185	4.185	4.185	
STACK PRESSURE	60 lbs.	60 lbs.	60 lbs.	60 lbs.	
TEMPERATURE °C	+160	-65	-65	+160	
CURRENT DRAIN ma./SQ. IN. @ V.	200	200	200	200	
P. V.	12.6	1.28	12.8	12.4	
2.50 V. - SECONDS					
2.25 V. - SECONDS					
2.00 V. - SECONDS					
1.90 V. - SECONDS					
12.0 V. - SECONDS	35	232.0	226.5	17	
11.0 V. - SECONDS	75	354.5	348	34	
10.0 V. - SECONDS	96.6	386	415	45	
9.0 V. - SECONDS					
OCV. -	13.2	12.7	12.6	13.2	
ALLOY	0	0	0	0	
NOISE	None	None	None	None	
WETTING %	70	90	90	70	
ANODE APPEARANCE	1.7 sec.	2.0 sec.	2.0 sec.	1.6	
PELLET DEFORMATION - DIA. Mils.	7.6	7.4	7.4	7.8	

[redacted]

TABLE 354
BATTERY AND CELL TEST

C - DENOTES CELL
B - DENOTES BATTERY

BATTERY OR CELL NO.	B-15	B-19	B-16	B-20	
BIMETAL WEIGHT - GMS.	1.330	1.330	1.330	1.330	
ACETATE DIP NUMBER	None	None	None	None	
TREATMENT	HNO_3 Cleaned	HNO_3 Cleaned	HNO_3 Cleaned	HNO_3 Cleaned	
DEB BLEND NO.	SA-1F	SA-1F	SA-1F	SA-1F	
DEB WEIGHT - GMS.	2.385	2.385	2.385	2.385	
END HEAT PELLET WEIGHT-GMS.	(4) 4.195	(4) 4.195	(4) 4.195	(4) 4.195	
CELL HEAT PELLET WEIGHT-GMS.	4.195	4.195	4.195	4.195	211.2 cal/gm. of cell
STACK PRESSURE	125	125	125	125	
TEMPERATURE °C	-65	+160	-65	+160	
CURRENT DRAIN ma./SQ. IN. @ V.	200	200	200	200	
P. V.	13.1	1.32	13.1	13.0	
2.50 V. - SECONDS					
2.25 V. - SECONDS					
2.00 V. - SECONDS					
1.90 V. - SECONDS					
12.0 V. - SECONDS	401	225	345	217	
11.0 V. - SECONDS	-440	289	395	284	
10.0 V. - SECONDS	464	322	420	331	
9.0 V. - SECONDS					
OCV. -	13.0	12.8	13.1	12.6	
ALLOY	0	0	0	0	
NOISE	None	None	None	None	
SETTING %	100	100	100	100	
START TIME	1.9	1.2	1.9	1.2	
PELLET DEFORMATION - DIA.	9.4	10.0	9.4	10.0	

[redacted]

TABLE 355 - MODIFIED PLATEN STUDY - SERIES 1

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3879	1.3878	1.3877	1.3874	1.3872		1.3876
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.9	7.8	7.7	7.4	7.2		7.6

Date Pellets Vacuum Dried: _____

Peak Voltage	2.35	2.35	2.30	2.38	2.38		2.35
Time to 2.0 V. Sec.	54	50	53	55	50		53.4
Alloy, Count	80	55	75	60	68		68
Deformation, Mils.	5.4	3.2	4.6	50	3.3		4.3
Wetting, %	Bowed 70	Bowed 70	Bowed 70	Bowed 70	Bowed 70		Bowed 70

	Voltage						
60 Seconds	1.55	1.50	1.58	1.50	1.60		1.55
120	.74	.76	.84	.83	.83		.80
180	.64	.76	.63	.80	.63		.69
240	.59	.55	.58	.70	.57		.60
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 356 - MODIFIED PLATEN STUDY - SERIES 2

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3861	1.3873	1.3875	1.3871			1.3870
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.1	7.3	7.5	7.1			7.0

Date Pellets Vacuum Dried: _____

Peak Voltage	2.40	2.38	2.39	2.39			2.39
Time to 2.0 V. Sec.	58	45	47	57			51.8
Alloy, Count	105	134	114	136			122
Deformation, Mils.	10.8	11.6	7.3	8.2			9.5
Wetting, %	80	80	80	80			80

	Voltage						
60 Seconds	1.95	1.46	1.95	1.95			1.83
120	1.90	1.66	1.56	1.02			1.49
180	1.26	1.43	1.12	.93			1.19
240	1.21	1.13	1.00	.85			1.05
300							
360							
420 O.C.V.	2.50	2.50	2.51	2.55			2.51
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

[redacted]

TABLE 357 - MODIFIED PLATEN STUDY - SERIES 3

BIMETAL NO. 1 T°C 450°C

DEB LOT NO. SA-1D CURRENT DENSITY 856 ma./sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 50 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils	1.3869	1.3875	1.3877	1.3872			1.3873
Diameter, in.							
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	6.9	7.5	7.7	7.2			7.3

Date Pellets Vacuum Dried: _____ .

Peak Voltage	2.33	2.38	2.37	2.38			2.37
Time to 2.0 V. Sec.	28	33	32	30			31
Alloy, Count	16	11	13	9			12
Deformation, Mils.	5.6	4.0	5.9	5.4			5.2
Wetting, %	90	90	90	90			90

	Voltage						
60 Seconds	2.13	2.27	2.22	2.18			2.20
120	1.14	.86	1.25	1.98			1.31
180	.88	1.14	1.16	.83			1.00
240	.76	.99	1.02	1.00			.94
300							
360							
420 O.C.V.	2.50	2.50	2.50	2.50			
480							
540							
600							
660	"Saddles" in Voltage Trace	"Saddles" in Voltage Trace	"Saddles" in Voltage Trace	"Saddles" in Voltage Trace			
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

[redacted]

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TABLE 358 - MODIFIED PLATEN STUDY - SERIES 2

BIMETAL NO. 1 T°C 600

DEB LOT NO. SA-1D CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3877	1.3882	1.3883	1.3887			1.3882
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.7	8.2	8.3	8.7			8.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.75	2.76	2.78	2.76			2.77
Time to 2.0 V. Sec.	11	13	12	12			12
Alloy, Count	338	357	310	346			338
Deformation, Mils.	Masked	by Alloy					
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	.80	1.10	.68	1.05			.91
120	.66	1.06	.86	1.00			.90
180	.63	1.11	1.00	.97			.93
240	.60	1.19	1.13	.91			.96
300							
360							
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
1200							
1260							
1320							
1380							
1440							
1500							

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TABLE 359 - MODIFIED PLATEN STUDY - SERIES 3

BIMETAL NO. 1 T°C 600°C

DEB LOT NO. SA-1D CURRENT DENSITY 0.7 ma./sq. in.

ACETATE COAT none

LBS. OF FORCE ON CELL 75 lbs.

	Test	Test	Test	Test	Test	Test	Av.
Thickness, Mils							
Diameter, in.	1.3873	1.3876	1.3877	1.3873			1.3872
Weight, gm.							
Density - gms/cm^3							
Growth, mils.	7.3	7.6	7.7	7.3			7.2

Date Pellets Vacuum Dried: _____

Peak Voltage	2.83	2.86	2.87	2.82			2.85
Time to 2.0 V. Sec.	20	17	15	12			16
Alloy, Count	199	175	178	167			180
Deformation, Mils.	133.3	116.2	110.4	104.4			116.1
Wetting, %	100	100	100	100			100

	Voltage						
60 Seconds	.72	.62	.84	.64			.71
120	.71	.94	1.86	1.14			1.16
180	1.02	1.63	1.15	1.85			1.41
240	1.34	2.05	2.42	1.72			1.88
300			2.23				2.23
360			2.15				2.15
420							
480							
540							
600							
660							
720							
780							
840							
900							
960							
1020							
1080							
1140							
200							
260							
1320							
1380							
1440							
1500							

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