CNLM-1802-14

FABRICATION OF BERYLLIUM: A BIBLIOGRAPHY

PRATT & WHITNEY AIRCRAFT
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FABRICATION OF BERYLLIUM: A BIBLIOGRAPHY

APRIL 1, 1960

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TABLE OF CONTENTS

Blank Page

INTRODUCTION

This bibliography contains 147 references on the fabrication of beryllium. References are also given on the brazing, casting, cladding, extrusion and welding of beryllium and some beryllium-rich alloys. The bibliography is limited to the period 1950 - 1959. References are arranged alphabetically by title, with author and subject indexes provided. Sources used in compiling this bibliography are:

Abstracts of Classified Reports

ASM Review of Metal Literature

Bibliographies of Interest to the Atomic Energy Program - Classified and Unclassified Versions

Engineering Index

Nuclear Science Abstracts

TISE, List of Bibliographies in the Atomic Energy Program

Blank Page

1. Sylvania Electric Products Inc. Metallurgical Labs.

THE APPLICATION OF POWDER METALLURGY TO PROBLEMS INVOLVING BERYLLIUM, ZIRCONIUM, AND URANIUM, by B. H. Alexander, H. H. Hausner, and W. E. Kingston. P. 7-26 of "Nuclear Science and Technology. (Extracts from Reactor Science and Technology. Vol. 1, issues 1 to 3, April - December 1951)". TID-2502 (Del) (P. 7-26). NSA12: 17313.

2. Lockheed Aircraft Corp., Missile Systems Div.

BERYLLIUM, by Wanda G. Bradshaw. LMSD-2260. Nov. 1, 1957. 57p.

3. BERYLLIUM, by P. L. Lowenstein, A. R. Kaufman, and S. V. Arnold. American Machinist 98: 203-6, (Apr. 12, 1954). ASM-1954-166F.

4. BERYLLIUM, by G. A. Meerson, et al. Atomnaya Energ. 5: 624-30, (1958). (in Russian). NSA13:5589.

5. BERYLLIUM, by G. L. Miller (Murex, Ltd.) Nuclear Power 2: 438-40a (Oct. 1957) NSA12:1430.

6. United Kingdom Atomic Energy Authority. Research Group.

BERYLLIUM. U.K./U.S. Research Newsletter No. 4. NP-7563. Apr. 1959. 3p. Rpt:OUO. ACR 15:1083.

7. Oak Ridge National Lab.

BERYLLIUM, by M. J. Whitman. CF-57-3-92. Mar. 21, 1957. 25p. Rpt:SRD. ACR 14:68.

8. BERYLLIUM - FABRICATION AND JOINING. TID-3624. Bibliography is now in preparation.

9. BERYLLIUM - FABRICATION AND JOINING. A LITERATURE SEARCH, by Raymond L. Scott. TID-3542. January 1960. 12p.

10. BERYLLIUM AND BERYLLIUM OXIDE PRODUCTION AND DEVELOPMENT. NYO-110. Nov. 21, 1949. 117p. Rpt:Secret. ACR 6:1189

11. BERYLLIUM AS INDUSTRIAL METAL, by M. Schofield. Light Metals 19: 312-3, (Oct. 1956).

12. BERYLLIUM COPPER SPOT WELDED WITHOUT CHANGE IN PROPERTIES, by D. I. Brown. Iron Age 171: 142-44, (Mar. 12, 1953). ASM-1953-194K.

13. Battelle Memorial Inst. Defense Metals Information Center.

BERYLLIUM FOR STRUCTURAL APPLICATIONS - REVIEW OF UNCLASSIFIED LITERATURE, by W. Hodge. DMIC-106. Aug. 15, 1958. 173p.

14. AVCO Mfg. Corp. Research and Development Div.

BERYLLIUM JOINING. QUARTERLY PROGRESS REPORT NO. 1 FOR JULY 15, 1958 TO SEPTEMBER 30, 1958, by E. M. Passmore. RAD-SR-8-58-45. Sept. 30, 1958. 16p. Rpt: OUO. ACR 15: 1084.

15. AVCO Mfg. Corp. Research and Advanced Development Div.

BERYLLIUM JOINING; WADC SPONSORED PROGRAM. QUARTERLY PROGRESS REPORT NO. 2, by E. M. Passmore. RAD-SR-8-59-7. Jan. 13, 1959. 21p. NSA 13: 12682.

16. Nuclear Metals, Inc.

BERYLLIUM RESEARCH AND DEVELOPMENT IN THE AREA OF COMPOSITE MATERIALS. QUARTERLY PROGRESS REPORT TO WADC FOR THE PERIOD JAN. 1, TO APR. 1, 1959, by J. Greenspan, et al. NMI-9408. June 23, 1959. 69p. NSA 13: 16988.

17. Nuclear Metals Inc.

BERYLLIUM RESEARCH AND DEVELOPMENT IN THE AREA OF COMPOSITE MATERIALS. QUARTERLY PROGRESS REPORT TO WADC FOR THE PERIOD OCT. 1, 1958 TO JAN. 1, 1959, by J. Greenspan, et al. NMI-9404. Mar. 20, 1959. 45p. NSA 13: 11180

18. BONDING RARE METALS, by R. F. Wegman and M. J. Bodnar. Machine Design 31: 139-40, (Oct. 1, 1959). ASM-1959-594K.

19. Brush Beryllium Co.

BRAZING BERYLLIUM TUBING TO HIGH-TEMPERATURE ALLOY COLLARS, by K. G. Wikle and R. Magalski. COO-310. June 1956. 22p. NSA 11:3837.

20. Battelle Memorial Inst.

THE BRAZING OF BERYLLIUM, by H. A. Saller, J. T. Stacy, and R. A. Miller. BMI-T-43. Oct. 30, 1950. 20p. Rpt:Secret. ACR 7:850.

21. Battelle Memorial Inst.

THE CLADDING OF BERYLLIUM, by H. A. Saller, et al. BMI-728. Feb. 26, 1952. Decl. Nov. 9, 1955. 20p. NSA 10:3009.

22. Metallurgical Project, M.I.T.

COMPARISON OF BRUSH PROCESS "Q" BERYLLIUM WITH EXTRUDED CAST BERYLLIUM, EXTRUDED FLAKE, AND EXTRUDED TURNINGS, by Paul Gordon. MIT-PG-1. Nov. 8, 1946. 16p. Rpt:Secret. ACR 11:87.

23. California Univ., Livermore, Radiation Lab.

CURRENT BERYLLIUM LITERATURE: A SELECTED BIBLIOGRAPHY, JANUARY 1958 - AUGUST 1959, by Zanier D. Lane. UCRL-5705. Sept. 29, 1959. 33p.

24. THE DEPOSITION OF BERYLLIUM ON COPPER AND OTHER METALS BY MEANS OF FUSION ELECTROLYSIS, by H. Fischer and W. S. Schwan. Translated by E. L. Poole from Metallwirtschaft 12:187-9, (1933). AERE-Lib/Trans-720. 7p. NSA 10:7742.

25. THE DEVELOPMENT OF BERYLLIUM FOR NUCLEAR REACTOR APPLICATIONS, by G. C. Ellis (Atomic Weapons Research Establishment, Eng.). Metallurgia 58: 243-50, (1958). NSA 13:2222.

26. THE DEVELOPMENT OF BERYLLIUM FOR NUCLEAR REACTOR APPLICATIONS, by G. C. Ellis (Atomic Weapons Research Establishment, Aldermaston, Eng.). Metallurgia 58:265-9, (Dec. 1958). NSA 13:5593.

27. Battelle Memorial Inst.

DEVELOPMENT OF METALLIC FUEL ELEMENTS AND ASSEMBLIES; BERYLLIUM, by H. W. Russell, H. R. Nelson, and R. W. Dayton. P. 41-5 of "Progress Report for the Month of December 1950". BMI-P-36 (P. 41-5). Jan. 1, 1951. 5p. Rpt:Secret. ACR 7:1243.

28. Battelle Menorial Inst.

DEVELOPMENT OF METALLIC FUEL ELEMENTS AND ASSEMBLIES (BERYLLIUM), by H. W. Russell, H. R. Nelson, and R. W. Dayton. P. 25-6, 46-8, of "Progress Report for the Month of January 1951". BMI-56 (P. 25-6, 46-8). Feb. 1, 1951. Rpt:Secret. ACR 7:1252.

29. DEVELOPMENT OF NEW EXTRUDING TECHNIQUES FOR PURE BERYLLIUM AND HIGH TEMPERATURE STEEL, by Lyle M. Christensen. Society of Automotive Engrs., Preprint No. 98U, 1959. 25p. ASM-1959-243F.

30. Brush Beryllium Co.

DEVELOPMENT OF WROUGHT BERYLLIUM ALLOYS OF IMPROVED PROPERTIES. PERIOD COVERED: JULY 5, 1957 TO JULY 4, 1958, by John G. Klein, Leslie M. Perelman, and Wallace W. Beaver. WADC-TR-58-478 (Pt. I). NSA 13:11873.

31. Brush Beryllium Co.

DEVELOPMENT OF WROUGHT BERYLLIUM ALLOYS OF IMPROVED PROPERTIES. PROGRESS REPORT NO. 5 FOR OCT. 1 - DEC. 31, 1958, by J. G. Klein, L.M. Perelman, and W. W. Beaver. NP-7363. Dec. 31, 1958. 27p. NSA 13:10043.

32. M.I.T.

DUCILITY OF EXTRUDED BERYLLIUM POWDER, P. Loewenstein, et al., P. 513-4 of "Proceedings of the Metallurgy and Materials Information Meeting, April 16-18, 1951," held at Oak Ridge, Tennessee, sponsored by Oak Ridge National Lab. TID-5061 (Del). (P. 513-4). NSA 12:17182.

33. Nuclear Metals, Inc.

THE EFFECT OF COPPER, NICKEL, IRON, AND CHROMIUM ON THE TENSILE PROPERTIES OF PREFERENTIALLY ORIENTED BERYLLIUM SHEET, by F. M. Yans, A. D. Donaldson, and A. R. Kaufmann. NMI-1192. Feb. 14, 1958. 40p. NSA 12:11448.

34. CLADDING OF REACTOR MATERIALS, by J. G. Beach and C. L. Faust (Battelle Memorial Inst.). Chem. Eng. Progr. Symposium Ser. No. 11, 31-8, (1954). NSA 8:5590.

35. National Bureau of Standards

ELECTRODEPOSITION OF BERYLLIUM. PROGRESS REPORT FOR JULY 1, 1953 TO SEPTEMBER 30, 1953, by Gwendolyn B. Wood and Abner Brenner. NBS-2812; AD-24306. Sept. 30, 1953. 9p. NSA 10:9230.

36. Battelle Memorial Inst.

ELECTRODEPOSITION OF BERYLLIUM, THROIUM, AND ZIRCONIUM, by J. A. Gurklis, J. G. Beach, and C. L. Faust. BMI-781. Nov. 4, 1952. Decl. Aug. 31, 1955. 26p. NSA 10:1367.

37. ELECTRODEPOSITION OF METALS FROM ORGANIC SOLUTIONS, IV. ELECTRODEPOSITION OF BERYLLIUM AND BERYLLIUM ALLOYS, by Gwendolyn B. Wood and Abner Brenner. (National Bureau of Standards). J. Electrochem. Soc. 104: 29-37. (Jan. 1957). NSA 11:3864.

38. Lockheed Aircraft Corp. Missile Systems Div.

ELECTRON BOMBARDMENT MELTING AND CASTING OF BERYLLIUM, by H. T. Sumsion and C. O. Matthews. LMSD-48330. Nov. 7, 1958. 43p. NSA 13:16983.

39. ELECTROPLATING ON BERYLLIUM, by J. G. Beach and C. L. Faust. Electrochemical Soc. J. 100: 276-9, (June 1953). ASM-1953-339L.

40. ELECTROPLATING ON BERYLLIUM, by J. G. Beach and C. L. Faust. Metal Finishing 51: 68-70, (Oct. 1953). ASM-1953-677L.

41. Battelle Memorial Inst.

ELECTROPLATING ON BERYLLIUM, by J. G. Beach and C. L. Faust. BMI-732. Apr. 1, 1952. Decl. Nov. 9, 1955. 48p. NSA 10:3812.

42. ELECTROPLATING ON BERYLLIUM, by J. G. Beach and C. L. Faust (to U.S.A.E.C.). U.S. 2,729,601. Jan. 3, 1956. NSA 10:3065.

43. FABRICATION AND PROPERTIES OF COMMERCIALLY PURE BERYLLIUM, by J. Williams. Metallurgical Reviews 3, No. 9, 1-44, (1958).

44. Brush Beryllium Co.

FABRICATION OF BERYLLIUM AND ZIRCONIUM SHAPES BY POWDER METALLURGY. PROGRESS REPORT FOR PERIOD OCTOBER 1, 1949 THROUGH MARCH 31, 1950, by A. J. Stonehouse and W. W. Beaver. BBC-51. May 11, 1950. Decl. Feb. 13, 1956. 45p. NSA 10:8890.

45. Carnegie Inst. of Tech.

FABRICATION OF BERYLLIUM METAL, by E. Creutz and D. Gurinsky. AECD-3279; ANL-HDY-696. Mar. 28, 1951. 10p. NSA 6:224.

46. FABRICATION OF BERYLLIUM METAL, by E. Creutz and D. Gurinsky. Metal Progress 62: 82-4, (Dec. 1952).

47. FABRICATION VARIABLES RELATED TO TEXTURE AND MECHANICAL PROPERTIES OF BERYLLIUM, by Jacob Greenspan (Nuclear Metals Inc.). P. 183-90 in "Progress in Nuclear Energy. Series V. Metallurgy and Fuels. Vol. 2." NSA 13:19345.

48. Oak Ridge National Lab.

FINAL REPORT ON BERYLLIUM FOR THE MTR, by J. L. Gregg. CF-51-9-71. Sept. 13, 1951. Decl. Apr. 22, 1958. 15p. NSA 12:10063.

49. Gt. Brit. Atomic Energy Research Establishment.

FIRST REPORT ON THE SHEATHING OF URANIUM WITH BERYLLIUM BY POWDER METALLURGY TECHNIQUES, by A. Blainey and H. Lloyd. AERE-M/R-324. Mar. 1949. 18p. Rpt:SRD. ACR 11:1689.

50. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for September 1955. NMI-2038. Sept. 30, 1955. 9p. Rpt:SRD. ACR 12:133.

51. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for July 1956. NMI-2048. (Del.). Aug. 10, 1956. 14p. Rpt:SRD. ACR 12:2676.

52. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for November 1956. NMI-2052. Dec. 6, 1956. 12p. Rpt:SRD. ACR 13:974.

53. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for December 1956. NMI-2053. Jan. 8, 1957. 12p. Rpt:SRD. ACR 13:1986.

54. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for September 1957. NMI-2062. Oct. 11, 1957. 19p. Rpt:SRD. ACR 14:500.

55. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for December 1957. NMI-2065. Jan. 13, 1958. 17p. Rpt:SRD. ACR 14:1008.

56. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for January 1958. NMI-2066. Feb. 27, 1958. Rpt:SRD. ACR 14:1894.

57. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for February 1958. NMI-2067. March 26, 1958. 24p. Rpt:OUO. ACR 15:483.

58. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for May 1958. NMI-2070. June 20, 1958. 25p. Rpt:SRD. ACR 14:1896.

59. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for November 1958. NMI-2072. Jan. 13, 1959. 22p. Rpt:SRD. ACR 15:573.

60. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for January 1959. NMI-2074. Mar. 9, 1959. 33p. Rpt:SRD. ACR 15:986.

61. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for January 1959. NMI-2074. (Suppl.). Mar. 9, 1959. 6p. Rpt:SRD. ACR 15:717.

62. Nuclear Metals, Inc.

FUNDAMENTAL AND APPLIED RESEARCH AND DEVELOPMENT IN METALLURGY. Progress report for March 1959. NMI-2076. May 13, 1959. 52p. Rpt:SRD. ACR 15:1305.

63. Knolls Atomic Power Lab.

GRAIN REFINEMENT OF CAST BERYLLIUM, by A. E. Bibb and S. M. Bishop. KAPL-1917. Apr. 9, 1958. 28p. Rpt:OUO. ACR 15:481.

64. HANDLING TECHNIQUES FOR BERYLLIUM AND PROPERTIES OF BERYLLIUM AND BERYLLIUM ALLOYS, by William E. Bost. TID-3601. Feb. 1957. 12p. Rpt:OUO.

65. HOW TO BRAZE BERYLLIUM, by M. J. Zunick and J. E. Illingworth. Materials and Methods 39:95-7, (Mar. 1954). ASM-1954-283K.

66. IMPROVEMENT IN OR RELATING TO THE BRAZING OF BERYLLIUM, by Jack Williams and J. W. S. Jones (to United Kingdom Atomic Energy Authority). Brit. 814, 270. June 3, 1959. NSA 13:18180.

67. Brush Beryllium Co.

AN INVESTIGATION OF INTERMETALLIC COMPOUNDS FOR VERY HIGH TEMPERATURE APPLICATIONS. PERIOD COVERED MARCH 13, 1957 TO MARCH 12, 1958, by Robert M. Paine and A. James Stonehouse. WADC-TR-57-240 (Pt. II). May 1958. 120p. Rpt:SRD. ACR 14:1710.

68. Brush Beryllium Co.

INVESTIGATION OF INTERMETALLIC COMPOUNDS FOR VERY HIGH TEMPERATURE APPLICATIONS. PROGRESS REPORT NO. 7 FOR JUNE 16 TO SEPTEMBER 15, 1957, by Robert M. Paine and A. James Stonehouse. NP-6456. Sept. 15, 1957. 37p. Rpt:SRD. ACR 14:58.

69. Brush Beryllium Co.

INVESTIGATION OF INTERMETALLIC COMPOUNDS FOR VERY HIGH TEMPERATURE APPLICATIONS. QUARTERLY PROGRESS REPORT FOR OCTOBER 1 THROUGH DECEMBER 31, 1958, by A. J. Stonehouse, R. M. Paine, and W. W. Beaver. BBC-101. 21p. Rpt:SRD.

70. JOINING OF BERYLLIUM, by D. C. Martin. P. 283-94 in "The Metal Beryllium". American Society for Metals. ASM-1955-356K.

71. Battelle Memorial Inst. Defense Metals Information Center.

JOINING OF BERYLLIUM, by N. E. Weare and R. E. Monroe. DMIC-Memo-13. Mar. 30, 1959. 28p. NSA 13:12660.

72. JOINING OF BERYLLIUM, by N. E. Weare and R. E. Monroe. Light Metal Age 17: 10-12, (Aug. 1959). ASM-1959-653K.

73. Oak Ridge National Lab.

JOINING OF BERYLLIUM - A SURVEY OF THE UNCLASSIFIED LITERATURE, by H. A. Brown. CF-58-6-9. June 2, 1958. 9p.

74. Division of Research, AEC.

JOINT METALLURGY PROGRESS LETTER NO. 3, by E. A. Epremian, comp. WASH-173. Oct. 1955. 24p. Rpt:SRD. ACR 12:219.

75. Babcock and Wilcox Co. Atomic Energy Div.

LIQUID METAL REACTOR EXPERIMENT QUARTERLY TECHNICAL REPORT FOR OCTOBER-DECEMBER 1958. BAW-1135. 147p. Rpt:OUO. ACR 15:909.

76. LUBRICATION PROBLEMS IN FABRICATION OF NUCLEAR REACTOR METALS, by Paul Lowenstein. Lubrication Engrg. 14:262-65, 273, (June 1958). ASM-1958-228F.

77. Brush Beryllium Co.

THE MECHANICAL PROPERTIES OF BERYLLIUM AS RELATED TO FABRICATION PROCESSES, P. 135-49 of "Proceedings of the Spring Metallurgy Conference, March 24-26, 1952", held at Ames, Iowa, by W. W. Beaver. TID-5084, (P. 135-49); TI-160. 15p. Rpt:Restricted. ACR 8:1755.

78. MECHANICAL PROPERTIES OF BERYLLIUM FABRICATED BY POWDER METALLURGY, by W. W. Beaver and K. G. Wikle (Brush Beryllium Co.). J. Metals 6:559-73, (May 1954). NSA 8:4066.

79. Brush Beryllium Co.

MECHANICAL PROPERTIES OF BERYLLIUM METAL. I. HOT PRESSED POWDER, by W. W. Beaver and B. C. Raynes. BBC-48. June 26, 1951. 49p. NSA 11:2497.

80. MECHANICAL WORKING OF BERYLLIUM BY EXTRUSION, by P. Loewenstein, A. R. Kaufmann, and S. V. Arnold. P. 241-61, in "The Metal Beryllium". American Society for Metals. ASM-1955-180F.

81. THE MELTING AND CASTING OF BERYLLIUM, by P. Corzine and A. R. Kaufmann. P. 136-51 in "The Metal Beryllium". American Society for Metals. ASM-1955-315E.

82. MELTING AND CASTING OF BERYLLIUM, by E. S. Ivanov and V. M. Shmelev (U.S.S.R.). A/CONF. 15/P/2048. 12p. NSA 12:6823.

83. MELTING AND CASTING OF BERYLLIUM, by A. Kaufmann (Nuclear Metals, Inc.). P. 181-2 in "Progress in Nuclear Energy. Series V. Metallurgy and Fuels. Vol. 2". NSA 13:19344.

84. Argonne National Lab.

METALLURGY DIVISION - REPORT FOR JANUARY, FEBRUARY, AND MARCH 1947. CT-3802. March 31, 1947. 26p. Rpt:CRD. ACR 12:1141.

85. Ames Lab.

METALLURGY INFORMATION MEETING, AMES LABORATORY, IOWA STATE COLLEGE, MAY 2, 3 AND 4, 1956. TID-7526 (Pt. 2). Rpt:CRD. ACR 13:1714.

86. THE METALLURGY OF BERYLLIUM. ITS NUCLEAR APPLICATIONS, by L. R. Williams and P. B. Eyre (U.K.A.E.A., I.G., Springfields). Nuclear Eng. 3:9-18, (Jan. 1958). NSA 12:4227.

87. Clinton Labs.

METALLURGY OF URANIUM, THORIUM, AND BERYLLIUM, by F. Foote and E. J. Boyle. M-3992. 14p. Rpt:CRD. ACR 12:1201.

88. Knolls Atomic Power Lab.

METALLURGY REPORT FOR SEPTEMBER, OCTOBER, AND NOVEMBER 1955, by C. A. Bruch, W. M. Cashin, and D. W. White. KAPL-1458. 114p. Rpt:SRD. ACR 12:658.

89. METALS AND METAL PROCESSING IN THE ATOMIC ENERGY FIELD, by Alan U. Seybolt. Combustion 24:47-50, (July 1952). ASM-1952-571T.

90. METHOD OF WORKING BERYLLIUM, by R. E. Macherey (to U.S.A.E.C.). U.S. Patent 2,872,361. Feb. 3, 1959. NSA 13:13657.

91. NUCLEAR POWER WELDING SYMPOSIUM. Nuclear Power 3:206-28, (May 1958). NSA 12:9208.

92. Chicago Univ. Metallurgical Lab.

PHYSICS AND METALLURGY DIVISION REPORT FOR MONTH OF FEBRUARY 1946. CP-3445. Feb. 27, 1946. 10p. Rpt:CRD. ACR 12:2990.

93. PLATING AND CLADDING OF BERYLLIUM, by J. T. Stacy. P. 295-303 in "The Metal Beryllium". American Society for Metals. ASM-1955-549L.

94. Rensselaer Polytechnic Inst., Troy, N.Y. Powder Metallurgy Lab.

POWER METALLURGY OF BERYLLIUM. FINAL REPORT, by A. B. Backensto, Jr., and F. V. Lenel. SO-3006. July 31, 1952. 62p. NSA 11:2526.

95. POWDER METALLURGY OF REFRACTORY METALS, by Alan Blainey (Anglo-American Corp.). Metal Progr. 74, No. 3, 95-6, +, (Sept. 1958). NSA 12:17227.

96. United Kingdom Atomic Energy Authority, Research Group.

PRELIMINARY FABRICATION STUDIES ON U-Th-Be FUEL ELEMENTS, by W. J. Wright. AAEC/ARC/P-48. Oct. 1957. 10p. NSA 12:5972.

97. Brush Beryllium Co.

PROCESS DEVELOPMENT QUARTERLY PROGRESS REPORT FOR JULY, AUGUST AND SEPTEMBER 1952, by A. J. Stonehouse and W. W. Beaver. NYO-1117 (Rev.). Oct. 15, 1952. Decl. Mar. 2, 1957. 29p. NSA 12:3680.

98. Brush Beryllium Co.

PROCESS DEVELOPMENT QUARTERLY PROGRESS REPORT FOR OCTOBER, NOVEMBER, AND DECEMBER 1952, by A. J. Stonehouse. NYO-1118 (Rev.). Feb. 15, 1953. Decl. Feb. 28, 1957. 35p. NSA 12:2932.

99. Brush Beryllium Co.

PRODUCTION OF BERYLLIUM AND ITS COMPOUNDS FOR REACTOR USE, by Wallace W. Beaver. P. 21-51 of "Nuclear Science and Technology. (Extracts from Reactor Science and Technology. Vol. 2, Issues 1 to 4, April-December 1952)". TID-2503 (Del.) (P. 21-51). NSA 12:17340.

100. Brush Beryllium Co.

PRODUCTION OF BERYLLIUM AND ITS COMPOUNDS FOR REACTOR USE, by Wallace W. Beaver. Reactor Sci and Tech. 2, No. 1, 27-57, (April 1952). TID-2001 (P. 27-57); NYO-1110. Rpt: Confidential. ACR 8:1073.

101. Brush Beryllium Co.

PRODUCTION OF BERYLLIUM SHEETS FINISHED FLAT TO GAUGE. PHASE II. PROGRESS REPORT NO. 2 FOR FEBRUARY 1 TO APRIL 30, 1958, by K. G. Wikle and G. M. Glenn. NP-7047. 42p. NSA 13:2989.

102. Northrop Aircraft, Inc.

PROGRAM FOR THE DEVELOPMENT OF EXTRUDED BERYLLIUM SHAPES. NOR-59-227. 64p. NSA 13:21197.

103. M.I.T.

PROGRESS REPORT FOR MONTH OF NOVEMBER 1945. CT-3379. Dec. 11, 1945. 25p. Rpt: CRD. ACR 12:1752.

104. PROPERTIES OF BERYLLIUM, by M. C. Udy, H. L. Shaw, and F. W. Boulger. Nucleonics 11:52-9, (May 1953).

105. Brush Beryllium Co.

QUARTERLY PROCESS DEVELOPMENT PROGRESS REPORT FOR JULY, AUGUST, AND SEPTEMBER 1952, by A. J. Stonehouse and W. W. Beaver. NYO-1117. Oct. 15, 1952. 33p. Rpt: Confidential. ACR 9:252.

106. Brush Beryllium Co.

QUARTERLY PROCESS DEVELOPMENT PROGRESS REPORT FOR OCTOBER, NOVEMBER, AND DECEMBER 1952, by A. J. Stonehouse, comp. NYO-1118. Feb. 15, 1953. 36p. Rpt: Confidential. ACR 9:1132.

107. Brush Beryllium Co.

QUARTERLY PROCESS DEVELOPMENT PROGRESS REPORT FOR JANUARY, FEBRUARY, AND MARCH 1953, by A. J. Stonehouse. NYO-1119. May 15, 1953. Decl. Feb. 28, 1957. 31p. NSA 11:8525.

108. Brush Beryllium Co.

QUARTERLY PROCESS DEVELOPMENT PROGRESS REPORT FOR APRIL, MAY, AND JUNE 1953, by A. J. Stonehouse. NYO-1121. Oct. 30, 1953. 34p. Rpt: Confidential. ACR 10: 763.

109. Brush Beryllium Co.

QUARTERLY PROCESS DEVELOPMENT PROGRESS REPORT FOR JULY, AUGUST, AND SEPTEMBER 1953, by A. J. Stonehouse. NYO-1123. Nov. 30, 1953. 29p. Rpt: Confidential. ACR 10: 764.

110. Brush Beryllium Co.

QUARTERLY PROCESS DEVELOPMENT PROGRESS REPORT FOR JULY, AUGUST, AND SEPTEMBER 1953, by A. James Stonehouse. TID-10169. Nov. 30, 1953. Decl. Mar. 16, 1957. 28p. NSA 12: 3691.

111. Brush Beryllium Co.

QUARTERLY PROCESS DEVELOPMENT PROGRESS REPORT FOR OCTOBER, NOVEMBER, AND DECEMBER 1953, by A. James Stonehouse. TID-10170. Feb. 15, 1954. Decl. Sept. 15, 1957. 26p. NSA 12: 3692.

112. Brush Beryllium Co.

QUARTERLY PROCESS DEVELOPMENT PROGRESS REPORT FOR OCTOBER, NOVEMBER, AND DECEMBER 1953, by A. James Stonehouse. NYO-1124. Feb. 15, 1954. 27p. Rpt: Confidential. ACR 10: 1552.

113. National Bureau of Standards

QUARTERLY PROGRESS REPORT TO THE U. S. ATOMIC ENERGY COMMISSION; JANUARY, FEBRUARY, AND MARCH 1952. NBS-D-115. Rpt: Secret. ACR 8: 1394.

114. Brush Beryllium Co.

QUARTERLY PROGRESS REPORT FOR JANUARY, FEBRUARY, AND MARCH 1954, by A. J. Stonehouse. NYO-1201. May 15, 1954. Decl. Mar. 12, 1957. 29p. NSA 11: 13095.

115. National Bureau of Standards.

QUARTERLY PROGRESS REPORT TO THE UNITED STATES ATOMIC ENERGY COMMISSION FOR APRIL, MAY, AND JUNE 1954. AECD-4031; NBS-D-129. Decl. Jan 12, 1956. 74p. NSA 10:7246.

116. National Bureau of Standards.

QUARTERLY PROGRESS REPORT TO THE U.S. ATOMIC ENERGY COMMISSION FOR JANUARY, FEBRUARY, AND MARCH 1955. NBS-D-133. June 1955. 95p. Rpt:SRD. ACR 11:1938.

117. Knolls Atomic Power Lab.

QUARTERLY REACTOR TECHNOLOGY REPORT NO. 1 FOR JANUARY 1 - MARCH 31, 1957. KAPL-1770. 76p. NSA 11:7328.

118. Oak Ridge School of Reactor Technology.

REACTOR MATERIALS. CHAPTER 11. BERYLLIUM, by George E. Evans. CF-52-8-148 (Chap. 11, (Del.). Apr. 23, 1953. Decl. with deletions Feb. 14, 1957. 34p. NSA 11:12474.

119. REPORT FROM GENEVA. REACTOR MATERIALS. Nucleonics 13, No. 9, 64-71, (Sept 1955). NSA 9:7155.

120. Knolls Atomic Power Lab.

REPORT OF METALLURGY SECTION FOR DECEMBER 1953, JANUARY, FEBRUARY 1954. KAPL-1093. 89p. Rpt:Secret. ACR 10:1569.

121. Brush Beryllium Co.

RESEARCH AND DEVELOPMENT PROGRESS REPORT FOR JANUARY, FEBRUARY, AND MARCH 1955. COO-305. Apr. 30, 1955. 33p. Rpt:CRD. ACR 11:1921.

122. Brush Beryllium Co.

RESEARCH AND DEVELOPMENT PROGRESS REPORT FOR APRIL, MAY, AND JUNE 1955. COO-306. July 29, 1955. 33p. Rpt:CRD. ACR 12:39.

123. Brush Beryllium Co.

RESEARCH AND DEVELOPMENT PROGRESS REPORT FOR JULY, AUGUST, AND SEPTEMBER, 1955. COO-307. Nov. 1, 1955. 29p. Rpt:CRD. ACR 12:293.

124. Brush Beryllium Co.

RESEARCH AND DEVELOPMENT PROGRESS REPORT FOR OCTOBER, NOVEMBER, AND DECEMBER 1955. COO-308. 33p. Rpt:CRD. ACR 12:759.

125. ROLLING AND ANNEALING TEXTURES OF BERYLLIUM AND HAFNIUM SHEET, by J. H. Keeler (General Electric Co.). Trans. Met. Soc. AIME 212:781-2, (Dec. 1958). NSA 13:3897.

126. Battelle Memorial Inst.

THE SELF-WELDING OF BERYLLIUM, by H. A. Saller, J. T. Stacy, and R. A. Miller. BMI-T-46. Sept. 17, 1951. 19p. Rpt:Secret. ACR 7:2774.

127. SOME ASPECTS OF THE FABRICATION TECHNOLOGY OF BERYLLIUM AND BERYLLIA, by D. T. Livey and J. Williams (Atomic Energy Research Establishment). A/CONF. 15/P/319. 22p. NSA 13:6782.

128. Martin Co.

STRUCTURAL EVALUATION OF BERYLLIUM PRODUCED BY SEVERAL PROCESSES. PERIOD COVERED JUNE 1, 1957 TO FEBRUARY 28, 1958, by B. B. Muvdi. WADC-TR-58-162. Apr. 25, 1958. 76p. NSA 13:5581.

129. Brush Beryllium Co.

A STUDY OF FACTORS RELATING TO THE CONSISTENCY OF MECHANICAL PROPERTIES IN EXTRUDED BERYLLIUM, by W. W. Beaver, et al. NYO-1120. Aug. 15, 1953. 405p. Rpt:OUO. ACR 10:762.

130. Brush Beryllium Co.

STUDIES OF THE PRODUCTION OF BERYLLIUM, ZIRCONIUM, AND URANIUM POWDERS AND THEIR FABRICATION BY POWDER METALLURGY; FINAL TECHNICAL REPORT, by W. W. Beaver, et al. BBC-56. June 28, 1951. 173p. Rpt:Secret. ACR 7:2775.

131. M.I.T. Metallurgical Lab.

TECHNICAL PROGRESS REPORT FOR THE PERIOD OCTOBER 1952 THROUGH DECEMBER 1952. MIT-1108. Feb. 25, 1953. Decl. Feb. 26, 1957. 161p. NSA 11:8519.

132. Metallurgical Project, M.I.T.

TECHNICAL PROGRESS REPORT FOR THE PERIOD OCTOBER 1952 THROUGH FEBRUARY 1954. MIT-1115. May 4, 1954. 138p. Rpt:Secret. ACR 10:1795.

133. M.I.T. Metallurgical Lab.

TECHNICAL PROGRESS REPORT FOR THE PERIOD JANUARY 1953 THROUGH MARCH 1953. MIT-1111. June 12, 1953. Decl. Feb. 28, 1957. 91p. NSA 11:8520.

134. Nuclear Metals, Inc.

TECHNICAL PROGRESS REPORT FOR THE PERIOD JULY 1954 THROUGH SEPTEMBER 1954. NMI-1126. Jan. 19, 1955. Decl. Mar. 4, 1957. 132p. NSA 11:7683.

135. Lockheed Aircraft Corp. Missile Systems Div.

TENSILE PROPERTIES OF BRUSH BERYLLIUM QMV MATERIAL AT ROOM AND ELEVATED TEMPERATURES, by Jay F. Burcham. LMSD-4009. Dec. 12, 1957. 36p. NSA 13:4706.

136. Nuclear Metals, Inc.

THIRD DIMENSIONAL DUCTILITY AND CRACK PROPAGATION IN BERYLLIUM SHEET, by F. M. Yans. NMI-1212. Mar. 18, 1959. 36p. NSA 13:10039.

137. VACUUM WELDING OF METALS, by J. A. Stohr (Commissariat a'l' Energie Atomique, Saclay, France) and J. Briola (Commissariat a'l' Energie Atomique, Paris). Welding and Metal Fabrication 26: 366-70, (Oct. 1958). NSA 13:3909.

138. Technical Information Service Extension, AEC.

WELDING AND BRAZING. A BIBLIOGRAPHY OF UNCLASSIFIED REPORT LITERATURE, by Gifford A. Young. TID-3059. Jan 1955. 46p.

139. Technical Information Service Extension, AEC.

WELDING AND BRAZING: A BIBLIOGRAPHY OF UNCLASSIFIED REPORT LITERATURE. TID-3301. July 1956. 32p.

140. Battelle Memorial Inst.

WELDING AND BRAZING OF BERYLLIUM TO ITSELF AND TO OTHER METALS, by R. E. Monroe, D. C. Martin, and C. B. Voldrich. BMI-836. May 28, 1953. 38p. NSA 7:6049.

141. WELDING, BRAZING, SOLDERING BERYLLIUM COPPER. I., by John T. Richards. Welding Engineer 35:23-7, (June 1950). ASM-1950-339K.

142. WELDING, BRAZING, SOLDERING BERYLLIUM COPPER. II, by John T. Richards. Welding Engineer 35:36-9, (July 1950). ASM-1950-425K.

143. WELDING, BRAZING, SOLDERING BERYLLIUM COPPER. III, by John T. Richards. Welding Engineer 35:35-7, (Aug. 1950). ASM-1950-471K.

144. WELDING OF BERYLLIUM, by E. Brundige, et al. Welding J. 38:4105-4135, (Oct. 1959). ASM-1959-669K.

145. WELDING PROBLEMS AND DEVELOPMENT PROGRAMS, by Willis Groth, et al, P. 78-135 of "Minutes of the Seventh Annual Atomic Energy Commission Welding Conference" held in Chicago, Ill., November 6-8, 1957. TID-7562 (P. 78-135). NSA 13:8982.

146. WELDING TECHNIQUES FOR THE RARER METALS, by D. R. Harries and J. G. Purchas. Nuclear Power 3:219-221, (May 1958). ASM-1958-361K.

147. WHICH WELDING PROCESS FOR THE NEW METALS?, by I. D. Holster, Jr. Metalworking 15:25-8, (Oct. 1959). ASM-1959-643K.

AUTHOR INDEX

SUBJECT INDEX