SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MATERION BRUSH INC.
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CHEMICAL

Valid To: December 31, 2024 Certificate Number: 0339.01

In recognition of the successful completion of the A2LA evaluation process accreditation is granted to this laboratory to perform the following tests on beryllium metal, beryllium oxide, beryllium hydroxide, beryllium basic carbonate, beryllium copper alloys, copper alloys, beryllium aluminum alloys, beryllium nickel alloys, beryllium containing ores, and miscellaneous beryllium containing solutions and materials:

Test Technology:	**Test Method(s)[1]:**
Physical Property Determinations	
Density	ASTM B311; DOC-7952
Particle Size Distribution	DOC-7983
Specific Surface Area	DOC-7960
Spectrochemical Analyses	
Direct Current Plasma – Optical Emission Spectrometry (Ag, Al, Be, Ca, Co, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, P, Pb, Si, Sn, Th, Ti, Yt, Zn, Zr)	ASTM E1097; DOC-7951, 7964
Direct Reading Vacuum Optical Emission Spectrometry (Ag, Al, Be, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Si, Ti, Zn, Zr)	DOC-8002
Flame Atomic Absorption Spectrophotometry (Ag, Al, Be, Ca, Co, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, Pb, Si, Ti, Zn, Zr)	DOC-7949, 7975, 7984
Inductively Coupled Plasma Optical Emission Spectrometry (Be- Low Vol), (Be, AlBeMet, BeO), (Be Alloy)	DOC-207426, DOC-202074, 7985
Miscellaneous Determinations	
Infrared Analysis for Carbon by Combustion	DOC-7928, 7962
Infrared Analysis for Oxygen by Inert Gas Fusion	DOC-7926, 7979, 7970
Infrared Analysis for Sulfur by Combustion	DOC-7946, 7950, 7962
Thermal Conductivity Analysis for Nitrogen by Inert Gas Fusion	DOC-7969, 7970
UV / VIS Photometric Titrations	DOC-7978
Volumetric Titrations	DOC-7929, 7933

[1] The methods designated as DOC-xxxx are internal test methods.

Accredited Laboratory

A2LA has accredited

MATERION BRUSH INC.

Elmore, OH

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 18th day of January 2023.

Mr. Trace McInturff, Vice President, Accreditation Service
For the Accreditation Council
Certificate Number 0339.01
Valid to December 31, 2024

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.