



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MATERION BRUSH INC.
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CHEMICAL

Valid To: December 31, 2020

Certificate Number: 0339.01

In recognition of the successful completion of the A2LA evaluation process (including compliance to R223 – Specific Requirements – GE Aviation S-400 Accreditation Program), 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
Particle Size Distribution
Specific Surface Area

ASTM B311; BW-ELM-AC 286
BW-ELM-AC 861
BW-ELM-AC 335

Spectrochemical Analyses

DC Arc Optical Emission Spectrography
(Ag, Al, B, Ca, Co, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, Pb, Si, Ti, Zn)

BW-ELM-AC 318

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; BW-ELM-AC 172, 246, 326, 469, 470, 471

Direct Reading Vacuum Optical Emission Spectrometry
(Ag, Al, Be, Co, Cr, Cu, Fe, Mg, Mn, Mo, Ni, Pb, Si, Ti, Zn, Zr)

BW-ELM-AC 3295

Flame Atomic Absorption Spectrophotometry
(Ag, Al, Be, Ca, Co, Cr, Cu, Fe, Mg, Mn, Mo, Na, Ni, Pb, Si, Ti, Zn, Zr)

BW-ELM-AC 241, 536, 944

Inductively Coupled Plasma Optical Emission Spectrometry
(Be)

BW-ELM-AC 975

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Test Technology:

Miscellaneous Determinations

Infrared Analysis for Carbon by Combustion
Infrared Analysis for Oxygen by Inert Gas Fusion
Infrared Analysis for Sulfur by Combustion
Thermal Conductivity Analysis for Nitrogen by Inert Gas Fusion
UV / VIS Photometric Titrations
Volumetric Titrations

Test Method(s)¹:

BW-ELM-AC 173, 429
BW-ELM-AC 171, 505, 506
BW-ELM-AC 229, 243, 429
BW-ELM-AC 505, 506
BW-ELM-AC 638
BW-ELM-AC 174, 184

¹ The methods designated as BW-ELM-AC 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 laboratory also meets the requirements of R223 – Specific Requirements – GE Aviation S-400 Accreditation Program. 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 27th day of November 2018.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 0339.01
Valid to December 31, 2020

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