



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MATERION BRUSH INC.  
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MECHANICAL

Valid To: December 31, 2024

Certificate Number: 0339.03

In recognition of the successful completion of the A2LA evaluation process accreditation is granted to this laboratory to perform the following physical tests on metals and alloys – (beryllium metal, aluminum – beryllium metal, beryllium – containing alloys, and copper and copper alloys):

**Test Technology:**

**Test Method(s):<sup>1</sup>**

Bend Test (90°)	DOC-8150
Charpy Impact Test	ASTM E23
Hardness	
Brinell Hardness (3000 Kg)	ASTM E10
Vickers Hardness Testing (HV1, HV2, HV10)	ASTM E92
Rockwell Hardness Testing (B and C)	ASTM E18
Precision Elastic Limit	DOC-8163
Scroll Test	Tyco 109-32F
Solderability Test	DOC-8148
Tensile Testing of Be Microbars, High-Be Sheets, BeCu Bars and BeCu Strip Bars, Preparation of Tensile Specimens	ASTM E8/E8M

**Metallographic Evaluation**

Grain Size	
Characterizing Duplex Grain Size	ASTM E1181
Estimating the Largest Grain Observed in a Metallographic Section (ALA Grain Size)	ASTM E930
Grain Size by Linear (HEYN) Intercept or Comparison	ASTM E112
Macroetching Using HNO <sub>3</sub> Acid	ASTM E340
Preparation of Be Metal Metallographic Test Specimens	DOC-8135, 8145

**Electrical Analysis**

Conductivity Measurement Using the Auto Sigma 3000 - Conductivity Meter	ASTM E1004
Conductivity Measurement Using the Micro-Ohmmeter	ASTM B193

**Nondestructive Testing**

Magnetic Permeability of BeCu Specimens	BS-EN-60404-15
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<sup>1</sup> 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

**Mechanical 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 18<sup>th</sup> day of January 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0339.03  
Valid to December 31, 2024

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