CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Materion Buffalo Analytical Laboratory
2978 Main Street
Buffalo, NY 14214

Fulfills the requirements of

ISO/IEC 17025:2017

In the field of

TESTING

This certificate is valid only when accompanied by a current scope of accreditation document.
The current scope of accreditation can be verified at www.anab.org.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 21 February 2024
Certificate Number: L2313

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. 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).

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Materion Buffalo Analytical Laboratory

2978 Main Street
Buffalo, NY 14214
Kira Berent 800 327 1355

TESTING

Valid to: **February 21, 2024** Certificate Number: **L2313**

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
ICP-OES	Q-0265, Q-0306, Q-0621, Q-0627, Q-0628, Q-0688, Q-0692, Q-0695, Q-0696, QF-5075, Q-0857	Metals and Metal Alloys	Alloys from 100% down to 0.05%
ICP-OES	Q-0306, Q-0305, Q-0982, Q-0628, Q-0630, Q-00764, QF-5075	Metals and Metal Alloys	Trace Constituents and Impurities
ICP-MS	Q-0631	Metals and Metal Alloys	Trace Constituents and Impurities
GD-MS	Q-0278, Q-0719	Metals and Metal Alloys	Trace Constituents and Impurities
Carbon and Sulfur Determination	Q-0263, Q-0980	Metals and Metal Alloys	(1 to 50 000) ppm by weight
Oxygen and Nitrogen Determination	Q-0264	Metals and Metal Alloys	(1 to 50 000) ppm by weight
Hydrogen Determination	Q-0705	Metals and Metal Alloys	(0.1 to 100) ppm by weight
Alpha Particle Count (Radioactivity)	Q-0254	Flat metal products	(0.02 to 158 400) alpha particles/cm^2-h
DSC (Differential Scanning Calorimeter)	Q-0299	Metals and Metal Alloys	(25 to 1 400) °C
Metallographic Grain Size	ASTM E112	Metals Metal Alloys, Ceramics and Metal products	(2.5 to 32 000) µm
Metallographic Duplex Grain Sizes	ASTM E1181	Metals Metal Alloys, Ceramics and Metal products	(2.5 to 32 000) µm
Coating Thickness	ASTM B487	Metals Metal Alloys, Ceramics and Metal products	

Chemical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Salt Fog	MIL-STD-883 Method 1009.8, Q-0240	Plated metal products	Visual
Fire Assay	ASTM E1335 L-0610, L-0614, L-0809,	Metals, Alloys, Sweeps, recycling streams and refining solutions	Au, Ag, Pd, Pt (0.02 to 100) % by weight
Energy Dispersive XRF (X-Ray Fluorescence)	L-0808, L-0896	Metals and Metal Alloys	Screening Test
Spatter Test	Q-0239	Metal Alloys	Tube Furnace Qualitative
SEM-Backscatter/Image Analysis	Q-0865	PVD Materials	In-house developed procedure focused on customer product performance 0.25% Maximum Affected Area
Wavelength Dispersive XRF	Q-1096	Metal Alloys	Alloys from 100% down to 0.005%

Note:

1. This scope is formatted as part of a single document including Certificate of Accreditation No. L2313.

R. Douglas Leonard Jr., VP, PILR SBU