



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

IMR TEST LABS
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Lansing, NY 14882
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CHEMICAL

Valid to: April 30, 2026

Certificate Number: 1140.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the tests listed below on adhesives, aerospace and automotive products, aluminum alloys, brass & bronze, cables, carbon steel, cast iron, ceramics, coatings, copper alloys, elastomers, fasteners, labels, low alloy steel, nickel, magnesium, cobalt, composites, additive manufacturing parts, paints, plastics, powder metals, rubber, stainless steel, thermal spray, superalloys, titanium alloys, zinc alloys, oil and oil products, consumer products, children's products, toys, jewelry.

Test:	Test Method(s):
Ash Content	ASTM D5630
Chromatography	
Ion Chromatography	ASTM D4327
Cleanliness	ISO 16232
Coating Mass / Unit Area	ASTM B767
Coating Weight (Zn)	ASTM A90/A90M
Combustion Analysis – LECO (C, H, O, N, S)	ASTM E1019, E1409, E1447, E1941; CAP-032
Extractables (Gravimetric)	ASTM F2459; CAP-074
Moisture Analysis	CAP-087A
Total Organic Carbon	USP 643
Viscosity	ASTM D445
Powder Characterization	
Laser Light Diffraction (Microtrac) - Particle Size	ASTM B821, B822, C1070
Sieve Analysis - Particle Size	ASTM B214, D1214
Hall Flow Rate / Apparent Density	ASTM B212, B213

Test:	Test Method(s):
<i>Powder Characterization continued</i>	
Carney Flow Rate / Apparent Density	ASTM B964, B417
Tap Density	ASTM B527
<u>Physical Properties</u>	
Density/Specific Gravity	ASTM B311, D792 (Method A), D1475, D297
<u>Restriction of Hazardous Substances (RoHS)</u>	
Hexavalent Chromium	CAP-065
ICP – Inductively Coupled Plasma	CAP-055
ICP – Inductively Coupled Plasma	CAP-017
Ion Chromatography	ASTM D4327; CAP-043
X-Ray Fluorescence (XRF) ¹ (Semi-quantitative)	CAP-061, CAP-064
SEM/EDS (Semi-quantitative)	ASTM E1508
<u>Spectroscopy</u>	
FTIR	ASTM E334, E573, E1252
Inductively Coupled Plasma (ICP)	ASTM E3061, E2371, E2594, D1976; CAP-017
ICP-MS Analysis	ISO 13779-3; CAP-079
Optical Emission (OES) Al, As, B, C, Co, Cr, Cu, Fe, Mn, Mo, Nb (Cb), Ni, P, Pb, S, Si, Sn, Ti, V, W, Zr	ASTM A751, E415, E1086
Al, Bi, Cr, Cu, Fe, Mg, Mn, Ni, P, Pb, Si, Sn, Ti, Zn	ASTM E1251
Wavelength Dispersive (XRF)	ASTM E539; CAP-069
X-Ray Fluorescence (XRF) Semi Quant.	CAP-061
<u>Thermal Analysis</u>	
DSC (Differential Scanning Calorimeter)	ASTM D3418, D3895, D4591, E794, E1356
DMA (Dynamic Mechanical Properties)	ASTM D5023, D5024, D5026, D7028, E1640, E1867
TGA (Thermogravimetric Analyzer)	ASTM E1131
TMA (Thermal Mechanical Analyzer)	ASTM E831, E1545, E2092
<u>Wet Chemistry</u>	
Conductivity / Resistivity	ASTM D1125
pH	ASTM D1293, E70
Water Absorption	ASTM D570
Metal Powder Skeletal Density by Helium Pycnometry	ASTM B923

¹This laboratory performs field testing for this test.



Accredited Laboratory

A2LA has accredited

IMR TEST LABS

Lansing, NY

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 4th day of April 2024.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1140.02
Valid to April 30, 2026

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