



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017<sup>1</sup>

IMR TEST LABS  
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CHEMICAL

Valid to: April 30, 2022

Certificate Number: 1140.02

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 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, paints, plastics, powder metals, power and hand tools, rubber, stainless steel, thermal spray, superalloys, titanium alloys, zinc alloys, oil and oil products, consumer products, children’s products, toys, jewelry and other children’s products for total lead content and total lead in surface coatings testing and phthalates in children’s products and consumer goods<sup>2</sup>.

<u>Test:</u>	<u>Test Method(s):</u>
Ash Content	ASTM C561, D5630; ISO 3451-1
<b><u>Chromatography</u></b>	
Ion Chromatography	ASTM D4327
Cleanliness <sup>3</sup>	ISO 16232
Coating Mass / Unit Area	ASTM B767
Volatile Content of Coatings	ASTM D2369
Coating Weight (Zn)	ASTM A90/A90M
Combustion Analysis – LECO (C, H, O, N, S)	ASTM E1019, E1409, E1447, E1569, E1941, E2792, CAP-032
Density, Oil Content, and Porosity	ASTM B962, B963; ISO 2738; MPIF 42, 57
Extractables (Gravimetric)	ASTM F2459; CAP-074
Total Organic Carbon	USP 643

<u>Test:</u>	<u>Test Method(s):</u>
Viscosity	ASTM D445, D2857
<b><u>Particle Size Analysis</u></b>	
Laser Light Diffraction (Microtrac)	ASTM B821, B822, C1070
Sieve Analysis	ASTM B214; ISO 4497; MPIF 05
Hall Flow Rate / Apparent Density	ASTM B212, B213
Carney Flow Rate / Apparent Density	ASTM B964, B417
Tap Density	ASTM B527
<b><u>Physical Properties</u></b>	
Density/Specific Gravity <sup>3</sup>	ASTM B311, D792 (Method A), D1475, D3575 (Suffix W, Method A); ISO 1183-1, 3369
<b><u>Restriction of Hazardous Substances (RoHS)</u></b>	
Hexavalent Chromium	CAP-065; IEC 62321(-1, -2, -3-1, -3-2, -4, -5)
ICP – Inductively Coupled Plasma	CAP-055; GMW3034; ISO 3613
ICP – Inductively Coupled Plasma	CAP-017
Ion Chromatography	ASTM D4327; CAP-043
Lead Determination by ICP-AES	ASTM D4327; CAP-043
X-Ray Fluorescence (XRF) <sup>4</sup> (Semi-quantitative)	CAP-052
	CAP-061, CAP-064
SEM/EDS (Semi-quantitative)	ASTM E1508
<b><u>Spectroscopy</u></b>	
FTIR	ASTM E334, E573, E1252
Inductively Coupled Plasma (ICP)	ASTM E3061, E2371, ASTM D1976; CAP-017
ICP-MS Analysis	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
Positive Material Identification (PMI) <sup>4</sup>	CAP-064
X-Ray Fluorescence (XRF) Semi Quant. <sup>4</sup>	CAP-061
X-Ray Fluorescence (WD-XRF) (Wavelength Dispersive) Ag, Al, Bi, Cd, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb (Cb), Ni, P, Pb, Sb, Se, Si, Sn, Ta, Ti, V, W, Y, Zn, Zr	CAP-069
Al, Cr, Cu, Fe, Mn, Mo, Nb (Cb), Ni, Si, Sn, V, Y, Zr	ASTM E539

<u>Test:</u>	<u>Test Method(s):</u>
<b>Thermal Analysis</b>	
DSC (Differential Scanning Calorimeter)	ASTM D3418, D3895, D4591, D5028, E794, E1356
DMA (Dynamic Mechanical Properties)	ASTM D5023, D5024, D5026, D7028, E1640, E1867
TGA (Thermogravimetric Analyzer)	ASTM E1131, D6370
TMA (Thermal Mechanical Analyzer)	ASTM E831, E1545, E2092
Extractables (Gravimetric)	ASTM F2459
<b>Wet Chemistry</b>	
Conductivity / Resistivity	ASTM D1125
pH	ASTM D1293, D2110, D2989, E70
Titrimetric	A-A-59105; ASTM D512, D2106, E1584
Water Absorption	ASTM D570, D3575 (Suffix L)
Metal Powder Skeletal Density by Helium Pycnometry	ASTM B923

<sup>1</sup>This laboratory also meets the requirements of ISO/IEC 17025:2005.

<sup>2</sup>The Consumer Product Safety Improvement Act (CPSIA) requires that every children's product subject to a federal consumer product safety requirement be tested by a Consumer Product Safety Commission (CPSC) accepted laboratory for compliance with the applicable federal children's product safety requirements. Accreditation by A2LA does not infer acceptance by the CPSC. Please verify this organization's acceptance status by using the CPSC's searchable database, located at <http://www.cpsc.gov/cgi-bin/labsearch/>.

<sup>3</sup>The laboratory is only accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed below. The inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications nor does it confer accreditation for the method(s) embedded within the specifications.

- Purity of Ultra High Molecular Weight Polyethylene – ASTM F648

<sup>4</sup>This laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests or calibrations.



## 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 laboratory also meets the requirements of R223 – Specific Requirements: GE Aviation S400 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 14<sup>th</sup> day of April 2020.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1140.02  
Valid to April 30, 2022

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