



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

IMR METALLURGICAL SERVICES  
4510 Robards Lane  
Louisville, KY 40218  
Jennifer Breetz Phone: 502 810 9007  
[Jennifer.Breetz@imrtest.com](mailto:Jennifer.Breetz@imrtest.com)

CHEMICAL

Valid to: April 30, 2020

Certificate Number: 1140.04

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 tests on the following materials and products: adhesives, aerospace and automotive products, aluminum alloys, brass and 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, superalloys, titanium alloys, zinc alloys, thermal spray, oil and oil products:

Test:	Test Method(s):
Coating Weight	ASTM A90/A90M
Corrosion of Surgical Instruments	ASTM F1089
Combustion Analysis (LECO - C & S)	ASTM E1019, E1941
SEM/EDS	ASTM E1508
Spectroscopy	
FTIR	ASTM E1252
Optical Emission (OES)	
Iron Base: (Al, As, B, C, Ca, Ce, Cr, Co, Cu, La, Mn, Mo, N, Nb (Cb), Ni, O, P, Pb, S, Sb, Si, Sn, Ta, Ti, V)	ASTM A751, E415, E1009
Stainless Steel: (Al, B, C, Ce, Co, Cr, Cu, Mn, Mo, N, Nb (Cb), Ni, O, P, Pb, S, Si, Sn, Ti, V, W)	ASTM E1086
Aluminum Base: (Ag, B, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Li, Mn, Mg, Na, Ni, P, Pb, Si, Sn, Sr, Ti, V, Zn, Zr)	ASTM E1251
Cobalt Base: (Al, B, C, Cr, Cu, Fe, Mn, Mo, N, Nb, Ni, P, S, Si, Ta, Ti, V, W)	CLP-008

Test:	Test Method(s):
Spectroscopy	
Optical Emission (OES) (cont'd)	
Copper Base: (Al, Ag, As, Bi, Cr, Co, Fe, Mg, Mn, Ni, O, P, Pb, S, Sb, Si, Sn, Zn)	CLP-008
Nickel Base: (Al, As, B, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, N, Nb, Ni, P, Pb, S, Si, Sn, Ta, Ti, V, W, Zr)	CLP-008
Titanium Base: (Al, C, Cr, Cu, Fe, H, Mn, Mo, N, Nb, Ni, O, Pd, Si, Sn, V, Y, Zr)	CLP-008
Wet Chemistry	
pH	ASTM D1293 (Method B), E70
Ion Chromatography	
	ASTM D4327
XRD	
	ISO 13779-3; CLP-056
X-Ray Fluorescence (XRF)	
Positive Material Identification (PMI) <sup>1</sup> (Al, Ag, As, Au, Bi, Co, Cr, Cu, Fe, Ga, Hf, Mg, Mn, Mo, Nb (Cb), Ni, P, Pb, Pd, Pt, Re, S, Sc, Si, Sb, Sn, Ta, Ti, V, W, Zn, Zr)	ASTM E1916

<sup>1</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 METALLURGICAL SERVICES**

*Louisville, KY*

for technical competence in the field of

## Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *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 22<sup>nd</sup> day of March 2018.

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

President and CEO  
For the Accreditation Council  
Certificate Number 1140.04  
Valid to April 30, 2020

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