



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

IMR TEST LABS - PORTLAND
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Portland, OR 97222
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MECHANICAL

Valid To: September 30, 2027

Certificate Number: 1140.07

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on aluminum alloys, brass & bronze, carbon steel, cast iron, cobalt alloys, copper alloys, fasteners, low alloy steel, nickel alloys, stainless steel, super alloys, titanium alloys, for the following industries: aerospace, automotive, nuclear, medical device, consumer products & industrial goods, metal production, general manufacturing, utilities, petrochemical, and power generation:

<u>Test</u>	<u>Test Method(s)</u>
<u>Fasteners</u>	
Hardness	ASTM F606/F606M
<u>Physical Testing</u>	
Charpy Impact (-320 to 500) °F	ASTM A370, E23
Creep	ASTM E139
Density	ASTM B311
Ductility (Bend)	ASTM A370, E190, E290 (Guided, Semi Guided: B, C), ASME BPVC.IX
Hardness	
Brinell (3000) kg	ASTM A370, E10
Rockwell (A, B, C, E, F, 15N, 30N, 45N, 15T, 30T, 45T)	ASTM A370, E18
Hydrogen Embrittlement	ASTM F519
Jominy Hardenability	ASTM A255
Microhardness	ASTM E92, E384; SAE ARP 1820
Knoop (300, 500) g	
Vickers (100, 300, 500, and 10,000) g	

<u>Test</u>	<u>Test Method(s)</u>
<u>Physical Testing cont'd</u>	
Rotating Beam Fatigue	ASTM E468; ISO 1143; JIS Z 2274; MPP-008
Stress Rupture	ASTM E139, E292
Tensile	
Elevated Temperature (Up to 2000) °F	ASTM E21
Room Temperature (TS, YS, EL, RA)	ASTM A370, B557, E8/E8M;
(Up to 120,000) lbs	
Young's, Tangent and Chord Modulus	ASTM E111
Weld Operator and Procedure Qualification Testing	ASME Section IX; AWS D1.1, D1.2, D1.4, D1.5, D1.6, D17.1
<u>Metallographic Evaluation</u>	
Preparation of Specimens	ASTM E3
Alpha Case	ASTM E407; GE P3TF19, GE P3TF32; PWA E142
Depth of Decarburization (Microscopical and Microindentation Hardness Methods)	ASTM E1077
Determination of Volume Fraction by Point Count	ASTM E562
Determination of Delta Ferrite Content	AMS 2315, US NRC Reg. Guide 1.31
Case Depth	SAE J423
Grain Size	ASTM E112 (Method A & D), E930, E1181
Inclusion Content	ASTM E45 (Method A)
Intergranular Attack/Corrosion Susceptibility	ASTM A262 (Practice A, B, C, E), A923 (Method A & C), G48 (Method B), G110; AMS-H-6088, AMS 2772
Macroetching	ASTM E340, E381; ISO 15614-1, 17639
Microetching	ASTM E407
Microstructure	ASTM A247, F1854; ASM Metals Handbook Volume 9

Test**Chemical Analysis**

Combustion Analysis (C, H, N, O, S)

Atomic Emission Spectroscopy – Inductively Coupled Plasma (ICP) (Ferrous and Non-Ferrous Metals) (Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, Ga, Ge, Hf, In, K, Li, Mg, Mn, Mo, Na, Nb, Ni, P, Pb, Pd, Pt, Re, Ru, S, Sb, Se, Si, Sn, Sr, Ta, Te, Ti, Tl, V, W, Y, Zn, Zr)

Optical Emission Spectroscopy (OES)

Iron Base:

(Al, As, B, C, Ca, Co, Cr, Cu, Mg, Mn, Mo, Nb (Cb), Ni, P, Pb, S, Sb, Si, Sn, Ti, V, W, Zn, Zr)

Stainless Steel:

(Al, B, C, Co, Cr, Cu, Mn, Mo, Nb (Cb), Ni, P, Pb, S, Si, Sn, Ti, V, W)

Aluminum Base:

(B, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Li, Mg, Mn, Na, Ni, P, Pb, Si, Sn, Sr, Ti, V, Zn, Zr)

Nickel Base:

(Al, B, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb (Cb), P, Pb, S, Si, Sn, Ti, V, W, Zr)

Titanium Base:

(Al, Cr, Cu, Fe, Mn, Mo, Nb (Cb), Ni, Pd, Si, Sn, V, Zr)

Cobalt Base:

(Al, B, C, Cr, Cu, Fe, La, Mn, Mo, Nb (Cb), Ni, P, Pb, S, Si, Sn, Ti, V, W)

Test Method(s)

ASTM E1019, E1409, E1447, E1941; CPP-004

ASTM E2594, E3061, E2371; CPP-014

ASTM A751, E415, E1999

ASTM E1086

ASTM E1251

ASTM E3047; CPP-003

ASTM E2994; CPP-003

CPP-003





Accredited Laboratory

A2LA has accredited

IMR TEST LABS - PORTLAND

Portland, OR

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 3rd day of September 2025.

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 1140.07
Valid to September 30, 2027

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