



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

HOWMET RESEARCH CENTER
1500 S. Warner St.
Whitehall, MI 49461-1895
Michelle McDonald Phone: 231 894 7586

MECHANICAL

Valid To: March 31, 2027

Certificate Number: 2208.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on aircraft components, automotive components, ceramics, coatings, glass and glass products, metals and alloys, and plastics and polymers:

Test:

Test Method(s) ¹:

Hardness:

Brinell (Loads (1000, 1500, & 3000) kgf, Ball dia. 10 mm)	ASTM E10, A370
Rockwell (HRBW, HRC, HREW, HR15N, HR 30N)	ASTM E18, A370
Microindentation (Knoop, Vickers) (100g, 300g, 500g)	ASTM E384
Carburization/Decarburization via the Chord Method	ARP 1820
Room Temp. Tensile (up to 40 000 lb)	ASTM E8/E8M, A370, B557
Elevated Temp. Tensile (up to 40 000 lb., up to 2050 °F)	ASTM E21
Stress Rupture/Creep Rupture (up to 2050 °F)	ASTM E139, E292

Metallographic Evaluation:

Coating Thickness	ASTM B487
Preparation	ASTM E3, E1920
Grain Size (Comparison Method Only)	ASTM E112, E930
Microetching	ASTM E407
Alpha Case	MCL III-273
IGA/IGO / Casting Mold Reaction/Alloy Depletion	MCL III-251
Delta Ferrite	ASTM E562; MCL III 237.06
Heat Treatment Solution/Incipient Melting Measurement	ASTM E562; MCL III-274
Wrought Titanium Microstructure	MCL III-273
Micro Porosity by Image Analysis and Point Count	MCL III-270, ASTM E562
Oxidation Test	HRC LM-100
Evaluation of Welds	MCL III-258

Test:

Test Method(s) ¹:

Metallographic Evaluation (cont.):

SEM with Energy Dispersive Spectroscopy

MCL III-510; ASTM E1508

Failure Analysis

Using the methods listed above and on
Scope of Accreditation 2208.02 in
accordance with ASM Handbook
Volume 11

Lab Heat Treatment

MCL III-352

¹ When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *R101 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.



Accredited Laboratory

A2LA has accredited

HOWMET RESEARCH CENTER

Whitehall, MI

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 28th day of March 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 2208.01
Valid to March 31, 2027

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