



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ANALYTICAL PROCESS LABORATORIES, INC.

8222 West Calumet Road

Milwaukee, WI 53223

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MECHANICAL

Valid To: September 30, 2027

Certificate Number: 0431.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on metals and fasteners:

Test:

Test Method(s)¹:

Bend Test

ASTM E190, A370

Fasteners:

Tension & Proof (Axial and Wedge)

ASTM F606/606M
ISO 898-1

Hardness:

Brinell (500 & 3000 Kg)

ASTM E10, E110, A370, F606/606M;
ISO 898-1
ISO 6506-1

Microhardness (Knoop 500 g)

ASTM E384, F606/606M

Rockwell (B, C, 30N, 30T, E, 15N)

ASTM E18, F606/606M

Macro Vickers (10 Kg)

ASTM E92, F606/606M

Impact (V-notch and U-notch)

-320 °F, -150° F to RT

ASTM E23, A370;
DIN 10045-1(*Withdrawn 2010*)*;
ISO 148-1;
JIS-Z-2242

Metallographic Evaluation:

Case Depth

SAE J423

Depth of Decarburization

ASTM E1077

(Microscopic & Microhardness)

Evaluation of Graphite in Fe Castings

ASTM A247

Inclusion Content

ASTM E45 (Method A)

Grain Size (Comparison Method)

ASTM E112 (Sections 10 and 13)

Macroetch

ASTM E340, E381

Microetch

ASTM E407

Photography using SEM (Qualitative)

APL 83

Plating Thickness

ASTM B487

Plating Mass per Unit Area

ASTM B767, A90

Preparation

ASTM E3

Test:

Microstructure

Physical Properties/NDT:

Density

Electrical Conductivity

Tensile

Weld Operator and Weld Procedure Qualifications
(Tensile, Bend, Impact, Macroetch)

Failure Analysis

Test Method(s)¹:

ASM Metals Handbook, Vol. 9

ASTM B311

ASTM E1004

ASTM A370, E8/E8M, B557;
DIN 10002-1(*Withdrawn 2009*)*;
ISO 6892-1;
JIS-Z-2241
ASTM E111 (Ambient temp only)

ASTM A488/A488M;
ASME Section IX;
AWS B4.0, D1.1;
NAVSEA S9074-AQ-G1B-10/248

Using the methods listed above
(and on Scope of Accreditation
0431.03) in accordance with the
ASM Handbook Volume 11

¹When 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*.

** This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.*



Accredited Laboratory

A2LA has accredited

ANALYTICAL PROCESS LABORATORIES, INC.

Milwaukee, WI

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 1st day of October 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 0431.02
Valid to September 30, 2027

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