



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

WELDALOY  
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Warren, MI 48089  
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MECHANICAL

Valid To: February 28, 2025

Certificate Number: 6839.01

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

| <b><u>Test:</u></b>  | <b><u>Test Method(s):</u></b>          |
|--|--|
| Hardness<br>Rockwell (B,C)   | ASTM E18                               |
| Microhardness<br>Knoop (10g to 1kg HK)<br>Vickers (10g to 1 kg HV)         | ASTM E384                              |
| Tensile, Elongation, Yield, and Reduction of Area<br>(Ambient Temperature) | ASTM E8                                |
| Modulus  | ASTM E111                              |
| Metallographic preparation   | ASTM E3                                |
| Macro-Etching  | ASTM E340                              |
| Micro-Etching  | ASTM E407;<br>ASM Handbook Vol. 9      |
| Grain Size Analysis  | ASTM E112,<br>ASTM E1181,<br>ASTM E930 |
| In-Situ Metallography  | ASTM E3                                |
| Optical Microscopy   | ASTM E883                              |
| SEM/EDS  | ASTM E1508,<br>ASTM E986               |
| Failure Analysis   | ASM Handbook Vol. 11                   |

**Test:**

**Test Method(s):**

Volume Fraction

ASTM E562

Case Depth

SAE J423

Depth of Decarburization

ASTM E1077

Alpha Case for Titanium Alloys

AMS 4928,  
AMS 4930,  
AMS 4931,  
AMS 4983,  
AMS 4966;  
ASTM E384;  
RB0170-152

CHEMICAL

**Test:**

**Test Method(s):**

Optical Emission Spectroscopy (OES)

Stainless Steel

Aluminum and Aluminum Alloys

Nickel Alloys

Copper Alloys

Titanium and Titanium Alloys

Carbon and Low Alloy Steel

ASTM E1086,  
ASTM E1251,  
ASTM E3047,  
ASTM E478,  
ASTM E2994,  
ASTM E415,  
ASTM A751

(Al, B, Be, Bi, C, Ca, Cd, Co, Cr, Cu, Fe, H,  
Mg, Mn, Mo, N, Na, Nb, Ni, O, P, Pb, S, Sb,  
Si, Sn, Ta, Te, Ti, V, W, Y, Zn, Zr)



# Accredited Laboratory

A2LA has accredited

**WELDALOY**

Warren, 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 28<sup>th</sup> day of February 2023.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 6839.01  
Valid to February 28, 2025

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