



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MATERIALS TECHNOLOGY, INC.  
213 Lyon Lane  
Birmingham, AL 35211  
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MECHANICAL

Valid To: May 31, 2024

Certificate Number: 0878.01

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

<b><u>Test:</u></b>	<b><u>Test Method(s):</u></b>
Rockwell Hardness (B, C, 15N, 30N, 15T and 30T)	ASTM E18
Brinell Hardness (500 kg and 3000 kg)	ASTM E10
Microhardness (HV0.3, HV0.5, HV1)	ASTM E384
Room Temperature Tensile Test (Machined) (≤ 390 klf)	ASTM A370, B557, E8/E8M
Axial, Wedge Tensile Test	ASTM A370, F606/F606M; JIS Z2241
Proof Load (Internal & External Threads, Fasteners)	ASTM F606/F606M
Discontinuities	ASTM F788/F788M, F812/F812M; SAE J122, J123 (Superseded) <sup>1</sup>
Shear (Single & Double)	ASTM F606/F606M; NASM 1312-13, 1312-20
Impact (≤ 264 ft.lbs)	ASTM A370, E23, DIN EN ISO 148
Bend Test (Weldments)	ANSI/AWS D1.1 through D1.6; API-5L; ASME Section IX; AWS B4.0
Flattening	ASTM A999
Ring Tensile Test	DIN EN ISO 8496
Metallographic Evaluation	
Grain Size (Comparison method)	ASTM E112
Decarburization	ASTM E1077, F2328; AMS H6875 Section 4.3.3.1; SAE J419
Macro Etch	ASTM E340, E381
Intergranular Attack	ASTM A262, Practice A; AMS H6875 Section 4.3.3.2
Case Depth	SAE J423
Volume Fraction	ASTM E562
Intermetallic Phase	ASTM A923-A
Inclusion Content (Method A)	ASTM E45
Intergranular Corrosion	ASTM G28-A, G48-A, A262-E, A262-C, A923-C; DIN EN3651-A

**Test:**

**Test Method(s):**

**Chemical**

Spark Atomic Emission Spectrometry Carbon and Low Alloy (Al, B, C, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, Pb, S, Si, Ti, V)	ASTM E415
Stainless Steels (Al, B, C, Co, Cr, Cu, Mn, Mo, N, Nb, P, S, Si, Ti, Ta, Ti, V)	ASTM E1086
Al Base (Cr, Cu, Fe Mg, Mn, Na, Ni, Si, Sr, Ti, Zn)	ASTM E1251
Cast Iron (Al, Cr, Cu, Mg, Mo, Mn, Ni, P, S, Si, Ti, V)	ASTM E1999

Failure Analysis	Using the methods listed above in accordance with the ASM Handbook Volume 11
Weld Procedure Qualification	ASME IX; AWS D1.1-1.6, B1.2, B2.0, B4.0

*<sup>1</sup> This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.*

*The laboratory is only accredited for the test methods listed above. The accredited test methods are used in determining compliance with various material specifications, some of which are listed below. The inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications nor does it confer accreditation for the method(s) embedded within the specifications:*

ASTM A193, A307, A325, A449  
SAE J429, J2295





## Accredited Laboratory

A2LA has accredited

### **MATERIALS TECHNOLOGY, INC.**

*Birmingham, AL*

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 30<sup>th</sup> day of March 2022.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0878.01  
Valid to May 31, 2024  
Revised March 18, 2024

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



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