



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

METALLURGICAL ENGINEERING SERVICES, INC.

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MECHANICAL

Valid To: September 30, 2022

Certificate Number: 3065.01

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

Test

Test Method(s)

I. Mechanical Tests

Metallography/Microscopy

Metallographic Preparation
Grain Size
Inclusion Rating
Graphite in Cast Iron
Plating Coating Thickness
Case Depth
Macroetching
SEM

ASTM E3
ASTM E112, E1382
ASTM E45 Method A
ASTM A247
ASTM B487, B748
SAE J423
ASTM E340, E381
ASTM B748, E766

Hardness/Microhardness

Rockwell (HRBW, HRC, HR15N, HR30N, HR15TW, HR30TW)
Brinell – 3000kg
Microhardness Knoop – 500g, Vickers 500g
Durometer Hardness, Shore A, D, and M

ASTM E18
ASTM E10
ASTM E384
ASTM D2240

Uniaxial

Tensile
Compression Testing of Metallic Materials at Room Temperature
Flexural Properties of Reinforced Polymers
Tensile Properties of Polymer Matrix Composite Materials
Compressive Properties of Polymer Matrix Composite Materials
Using a Combined Loading Compression (CLC) Test Fixture
Flexural Properties of Polymer Matrix Composite Materials
ASME Section IX; Pressure Vessels
AWS B4; Standard Methods for the Mechanical Testing of
Welds

ASTM A370, B557, D412, D638, E8
ASTM E9
ASTM D790
ASTM D3039
ASTM D6641
ASTM D7264
ASME, Section IX
AWS B4

Test

Test Method(s)

I. Mechanical Tests Continued

Corrosion Salt Spray	ASTM B117
Drop Weight Tear Test	ASTM E436
Failure Analysis (using the methods listed above and below)	ASM Handbook, Vol. 11

II. Chemical Tests

Portable X-ray Fluorescence (XFR via XL-PMI: Cr, Cu, Fe, Mg, Mo, Mn, Nb/Cb, Ni, Pb, Sn, V, W, Zn)	ASTM E572, E1476
OES Aluminum Alloys (Al, B, Be, Bi, Ca, Cr, Cu, Fe, Ga, Li, Mg, Mn, Na, Ni, P, Pb, Sb, Si, Sn, Sr, Ti, V, Zn, Zr)	ASTM E1251
Steel Alloys (Al, As, B, Bi, C, Ca, Ce, Co, Cr, Fe, La, Mn, Mo, Nb, Ni, P, Pb, S, Si, Sn, Ti, V, W, Zn, Zr)	ASTM E415, E1086
EDS	ASTM E1508
FTIR	ASTM E1252
Combustion Analysis of Carbon	ASTM E1019
Proportion of Phases in Portland Cement Clinker	ASTM C1365



Accredited Laboratory

A2LA has accredited

METALLURGICAL ENGINEERING SERVICES, INC.

Richardson, TX

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 21st day of September 2020.

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

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3065.01
Valid to September 30, 2022

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