



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

METALLURGICAL ENGINEERING SERVICES, INC.

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MECHANICAL

Valid To: September 30, 2024

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 Technology:

I. Mechanical Tests

Metallography/Microscopy

Metallographic Preparation

Grain Size

Inclusion Rating

Graphite in Cast Iron

Plating Coating Thickness

Case Depth

Macroetching

SEM

Hardness/Microhardness

Rockwell (HRBW, HRC, HR15N, HR30N, HR15TW, HR30TW)

Brinell – 3000kg

Microhardness Knoop – 500g, Vickers 500g

Durometer Hardness (Shore A, D, and M)

Test Methods:

ASTM E3

ASTM E112, E1382

ASTM E45, Method A

ASTM A247

ASTM B487, B748

SAE J423

ASTM E340, E381

ASTM B748, E766

ASTM E18

ASTM E10

ASTM E384

ASTM D2240

Test Technology:**I. Mechanical Tests Continued**

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 Combined Loading Compression (CLC) Fixture

Flexural Properties of Polymer Matrix Composite Material

Pressure Vessels

Standard Methods for the Mechanical Testing of Welds

Externally and Internally Threaded Fasteners, Washers, Direct
Tension Indicators, and Rivets

Corrosion

Salt Spray

Drop Weight Tear Test

Failure Analysis (Using the methods listed above and below)

II. Chemical TestsPortable X-Ray Fluorescence (XFR via XL-PMI):
(Cr, Cu, Fe, Mg, Mo, Mn, Nb/Cb, Ni, Pb, Sn, V, W, Zn)

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)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)

EDS

FTIR

Combustion Analysis of Carbon

Proportion of Phases in Portland Cement Clinker

Test Methods:ASTM A370, B557, D412,
D638, E8/E8M

ASTM E9

ASTM D790

ASTM D3039

ASTM D6641

ASTM D7264

ASME, Section IX

AWS B4

ASTM F606/F606M

ASTM B117

ASTM E436

ASM Handbook, Vol. 11

ASTM E572, E1476

ASTM E1251

ASTM E415, E1086

ASTM E1508

ASTM E1252

ASTM E1019

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 2nd day of August 2022.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3065.01
Valid to September 30, 2024

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