



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: September 30, 2026

Certificate Number: 2728.02

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

Test Description:

Test Method:

Guided Bend Test

ASTM E190

Hardness –

Rockwell – B, C, 15T, 30T, 45T, 15N, 30N, 45N

ASTM E18

Brinell – 3000 kg

ASTM E10

Vickers (Micro Hardness) – HV0.1, HV0.3, HV0.5

ASTM E384

Vickers (Macro Hardness) – HV5, HV10

ASTM E92

Impact – Charpy Method (300 ft.lbs / 406 J)

ASTM E23

Tensile – Tension, Yield, Modulus and Elongation:

ASTM E8/E8M, A370

n-Value

ASTM E646

r-Value

ASTM E517

Dynamic Fatigue Testing:

Force Controlled Axial Fatigue

ASTM E466

Strain Controlled Fatigue

ASTM E606

Tensile at Elevated Temperature –
(200 to 1100) °C

ASTM E21

Crack Tip Opening Displacement (CTOD) Fracture Toughness
Measurement

ASTM E1290 ¹

Compression test

COP-ML-42

Macroetching Metals and Alloys

ASTM E340

Metallographic Preparation

ASTM E3

Test Description:**Test Method:**

Determining the Inclusion Content of Steel	ASTM E45 Methods A and D
Determining Average Grain Size	ASTM E112 All methods
Characterizing Duplex Grain Sizes	ASTM E1181
Estimating the Largest Grain Observed in a Metallographic Section (ALA Grain Size)	ASTM E930
Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	ASTM A923 Practice A
Determining Volume Fraction by Systematic Manual Point Count	ASTM E562
Pyrometry (Heat Treatment)	AMS 2750
Determining Hardenability of Steel	ASTM A255 (sections 6.2 to 6.4.1.1)
Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution	ASTM G48 Method A
Salt Spray (fog) Test (including testing of Chemical Conversion Coatings on Al and Al alloys conforming to MIL-DTL-5541)	ASTM B117
Detection Susceptibility to Intergranular Attack in Austenitic Stainless Steels	ASTM A262 Practice A and E

Chemical Testing

*Spark Emission Spectrometric Chemical Analysis	
Al Base	ASTM E1251
(Si,Fe,Cu,Mn,Mg,Cr,Ni,Zn,Ti,Ag,B,Be,Bi,Ca,Cd,Co,Ga,In,Na,P,Pb,Sn,Sr,Tl,V,Zr,Al)	
Cu Base	DIN EN 15079
(Zn,Pb,n,P,Mn,Fe,Ni,Si,Cr,Bi,Ag,Co,Al,S,Be,Cu)	
C and low alloy steels	ASTM E415
(C,Si,Mn,P,S,Cr,Mo,Ni,Al,Co,Cu,Nb,Ti,V,W,Pb,Sn,Zr,Bi,Sb,Ta,B,Zn,Ag,N,As,Ca,Te,Fe)	
Austenitic SS	ASTM E1086
(C,Si,Mn,P,S,Cr,Mo,Ni,Al,Co,Cu,Nb,Ti,V,W,Pb,Sn,Sb,Ta,B,N,Fe)	
Cast Irons	ASTM E1999
(C,Si,Mn,P,S,Cr,Mo,Ni,Al,Co,Cu,Nb,Ti,V,W,Pb,Sn,Mg,Zr,Bi,Sb,B,Zn,N,Fe)	
Ni Base	ASTM E3047
(C,Si,Mn,P,S,Cr,Fe,Mo,V,Cu,WCo,Nb,Al,Ti,ZrSn,Zn,Ta,B,Ni)	

Test Description:**Test Method:**

Determination of Carbon, Sulfur, Nitrogen, and Oxygen in Steel, Iron, Nickel, and Cobalt Alloys by Various Combustion and Fusion Techniques

ASTM E1019

Determination of Hydrogen in Titanium and Titanium Alloys by the Inert Gas Fusion Thermal Conductivity/Infrared Detection Method

ASTM E1447

Determination of Oxygen and Nitrogen in Titanium and Titanium Alloys by Inert Gas Fusion

ASTM E1409

Gravimetry: Road vehicles — Cleanliness of components and systems

ISO 16232

XRF: Metals Identification, Grade Verification, and Sorting

ASTM E1476

EDS: Quantitative Analysis by Energy-Dispersive Spectroscopy

ASTM E1508

¹ 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

METALINSPEC LABORATORIOS, S.A. DE C.V.

Nuevo Leon, MEXICO

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 30th day of December 2024

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2728.02
Valid to September 30, 2026

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