



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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

Valid To: September 30, 2016

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:

<u>Test Description</u>	<u>Test Method</u>
Guided Bend Test	ASTM E190
Hardness –	
Rockwell – A, B, C, 15T, 30T, 45T, 15N, 30N, 45N	ASTM E18
Brinell	ASTM E10
Impact – Charpy Method	ASTM E23
Metallographic Preparation	ASTM E3
Microhardness –	
Knoop and Vickers	ASTM E384
Vickers	ASTM E92 (Withdrawn 2010) ¹
Tensile – Tension, Yield, Modulus and Elongation	ASTM E8, A370
Dynamic Testing:	
Force Controlled	ASTM E466
Strain Controlled	ASTM E606
Tensile at Elevated Temperature –	
(200 to 1100) °C	ASTM E21

<u>Test Description</u>	<u>Test Method</u>
Creep	ASTM E139
Stress Rupture	ASTM E139, E292
Salt Spray (fog)	ASTM B117
Determining the Inclusion Content of Steel	ASTM E45
Determining Average Grain Size	ASTM E112
Pyrometry	AMS 2750
Determining Hardenability of Steel	ASTM A255 (section 6.2 to 6.4.1.1)
Characterizing Duplex Grain Sizes	ASTM E1181
Estimating the Largest Grain Observed in a Metallographic Section (ALA Grain Size)	ASTM E930
Macroetch Testing Steel Bars, Billets, Blooms, and Forging	ASTM E381
Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution	ASTM G48
Detection Susceptibility to Intergranular Attack in Austenitic Stainless Steels	ASTM A262
Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	ASTM A923
Determining Volume Fraction by Systematic Manual Point Count	ASTM E562
Crack Tip Opening Displacement (CTOD) Fracture Toughness Measurement	ASTM E1290 (Withdrawn 2013) ¹
Macroetching Metals and Alloys	ASTM E340
Sampling Steel and Iron for Determination of Chemical Composition	ASTM E1806
High-Test Wrought Butt Welding Fittings	MSS SP-75 X2

Test Description

Test Method

Chemical Testing

Optical Spectrometric Chemical Analysis	ASTM E415 ²
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

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.

² This laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests or calibrations.





American Association for Laboratory Accreditation

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 17025:2005 *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 8 January 2009*).

Presented this 3rd day of February 2015.





President & CEO

For the Accreditation Council
Certificate Number 2728.02
Valid to September 30, 2016
Revised February 4, 2015

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