



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: April 30, 2025

Certificate Number: 3419.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following test on Metallic Materials (Steel products):

<u>Test:</u>	<u>Test Methods:</u>
<u>Mechanical Testing:</u>	
Charpy Impact	ASTM A370, ASTM E23; ISO 148-1
Hardness Brinell (HBW 10/3000, 10/500 and 500kgf) Rockwell (HRC) Vickers (10kgf)	ASTM A370, ASTM E10; ISO 6506-1 ASTM E18, ASTM A370
Tensile (Tensile Strength, Yield Strength, Young's Modulus, Elongation, and Reduction of Area)	ASTM A370, ASTM B557/B557M, ASTM E8/E8M; ISO 6892-1
Determining Average Grain Size (Comparison Method)	ASTM E112; ISO 643
Determining the Inclusion Content of Steel, manually (Method A, C and D)	ASTM E45; ISO 4967
Sample Preparation	ASTM E3, E407
Microetching	ASTM E407
Metallographic Evaluation – Determining Volume Fraction by Systematic Manual Point Count	ASTM E562

<u>Chemical Testing:</u>	
Chemical Analysis – Atomic Spark Emission Spectrometry (AES) (Steel and Stainless Steel)	ASTM A751, ASTM E415, ASTM E1086
Carbon & Low Alloy Steel (Al, As, B, C, Ca, Co, Cr, Cu, Mn, Mo, N, Nb, Ni, P, Pb, S, Sb, Se, Si, Sn, Ta, Ti, V, W, Zr)	
Stainless Steel (Al, B, C, Co, Cr, Cu, Mn, Mo, N, Nb, Ni, P, Pb, S, Si, Sn, Ta, Ti, V, W)	
Chemical Analysis – Combustion and Inert Gas Fusion Techniques (C, S, O, N, H in Steel and Stainless Steel)	ASTM E1019





Accredited Laboratory

A2LA has accredited

FRISA FORJADOS S.A. DE C.V.

Garcia, 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 22nd day of May 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3419.03
Valid to April 30, 2025

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