



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT BROKEN ARROW
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CHEMICAL

Valid To: September 30, 2024

Certificate Number: 1089.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on fasteners, metals, alloys, adhesives and sealants, aircraft components, automotive components, coatings, films, packaging; gaskets, seals and packings; composites; plastics and polymers; pipes, hoses, rubber and rubbers products, minerals and inorganics, corrosion/scale:

<u>Test(s):</u>	<u>Test Method(s):</u>
<u>Metallic Testing</u>	
Combustion Analysis ¹	
Carbon & Sulfur	ASTM E1019
Spectroscopy (OES) ¹	
Iron Base (Al, As, B, Bi, Ca, Co, Cr, Cu, Fe, Mn, Mo, N, Nb, Ni, P, Pb, S, Sb, Si, Sn, Ta, Ti, W, V, Zn, Zr)	ASTM E415, E1999, E1086
Aluminum Base (Be, Ca, Cd, Cr, Cu, Fe, Mg, Mn, Ni, Pb, P, Sb, Si, Sn, Ti, V, Zn, Zr)	ASTM E1251
Nickel Base (Al, B, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb, P, Si, Sn, S, Ta, Ti, V, W, Zr)	ASTM E3047
Copper Base (Al, As, Bi, Cd, Co, Cr, Fe, Mg, Mn, Ni, Pb, P, Sb, Si, Sn, S, Zn)	SOP C223
Intergranular Attack Corrosion	ASTM A262 (A, B, C, E), A763, A923 (A and C), A1084 (A and C), G28, G48; ISO 3651-1, -2
Wet Chemistry	SOP C218

Test(s):	Test Method(s):
Nonmetallic Testing	
Fourier Transform Infrared Spectroscopy (FTIR)	ASTM D276, D2124, D3677, E168, E334, E1252
Differential Scanning Calorimetry (DSC)	ASTM D3418, D4591, E793, E794, E1356; SOP N215
Thermomechanical Analysis (TMA)	ASTM E831, E1356, E1545
X-Ray Diffraction Spectrometry (XRD)	ASTM D934; JIS K 0131; SOP N214
Volatiles Content	ASTM D3530
Matrix Solids Content and Matrix Content	ASTM D3529
Ash Content (Burn off)	ASTM D3171 (G), D4745, D5630; ISO 3451-1
Water Absorption	ASTM D570
Coatings	
Coating Weight	ASTM A90/A90M, B137
Corrosion	
Residual Stress Detection	ASTM B154, G36
Exfoliating Corrosion	ASTM G67

¹This laboratory meets the requirements of *ASTM E329 Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection* for the testing of steel construction materials, steel reinforcing bars, and qualification of welding personnel.



Accredited Laboratory

A2LA has accredited

ELEMENT BROKEN ARROW

Broken Arrow, OK

for technical competence in the field of

Chemical 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 11th day of October 2022.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1089.02
Valid to September 30, 2024

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