

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT BROKEN ARROW 3100 North Hemlock Circle Broken Arrow, OK 74012 J.D. Quattlebaum Phone: 918 258 6066 Ext. 47129 jd.quattlebaum@element.com

CHEMICAL

Valid To: September 30, 2026 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 <u>fasteners</u>, <u>metals</u>, <u>alloys</u>, <u>adhesives</u> and <u>sealants</u>, <u>aircraft components</u>, <u>automotive components</u>, <u>coatings</u>, <u>films</u>, <u>packaging</u>; <u>gaskets</u>, <u>seals</u> and <u>packings</u>; <u>composites</u>; <u>plastics</u> and <u>polymers</u>; <u>pipes</u>, hoses, rubber and rubbers products, minerals and inorganics, corrosion/scale:

<u>Test</u>	Test Method(s)
Metallic Testing	
Combustion Analysis	<i>Y</i>
Carbon & Sulfur	ASTM E1019
Spectroscopy (OES)	
Iron Base	ASTM E415, E1999, E1086
(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)	
Aluminum Base	ASTM E1251
(Be, Ca, Cd, Cr, Cu, Fe, Mg, Mn, Ni, Pb, P, Sb,	
Si, Sn, Ti, V, Zn, Zr)	
Nickel Base	ASTM E3047
(Al, B, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, Nb, P, Si,	
Sn, S, Ta, Ti, V, W, Zr)	
Copper Base	SOP C223
(Al, As, Bi, Cd, Co, Cr, Fe, Mg, Mn, Ni, Pb, P,	
Sb, Si, Sn, S, Zn)	
Intergranular Attack Corrosion	ASTM A262 (A, B, C, E), A923 (A and C),
	A1084 (A and C), G28, G48; ISO 3651-1, -2
Wet Chemistry	SOP C218
N	
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
X-Ray Diffraction Spectrometry (XRD)	ASTM D934; JIS K 0131; SOP N214
Volatiles Content	ASTM D3530
Matrix Solids Content and Matrix Content	ASTM D3529

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<u>Test</u>	Test Method(s)
Nonmetallic Testing (cont'd)	
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



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 25th day of November 2024.

Mr. Trace McInturff, Vice President, Accreditation Services For the Accreditation Council

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