SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY CHICAGO
194 Internationale Boulevard
Glendale Heights, IL 60139
Jeff Romain Phone: 630 221 0385 x76237
E-mail: jeff.romain@element.com

CHEMICAL

Valid to: June 30, 2028 Certificate Number: 0104.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on the following products: forgings; castings; powder metal; threaded fasteners; sheets; weldments of materials including aluminum and aluminum alloys, brass and bronze, copper and copper alloys; carbon steel; low alloy steel; silicon electric steel; stainless steel; cemented carbides; ingot iron; wrought iron; cast iron; ductile iron, titanium; magnesium; tool steels; zinc coating, cadmium coating, zinc base for the automotive, railroad, aerospace, nuclear, medical, agricultural, electronic, power generation, tool and die, consumer and construction industries.

Test	Test Method(s)
Inductively Coupled Plasma (ICP) Steel, Stainless Steel, Tool Steel, Alloys of Aluminum, Cobalt, Copper, Magnesium, Nickel, Titanium, and Zinc based material, Cast Iron (Ag, Al, Au, B, Be, Bi, Ca, Cd, Ce, Co, Cr, Cu, Dy, Fe, Hf, Ga, Gd, In, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Pt, Re, S, Sb, Se, Si, Sn, Sr, Ta, Te, Ti, Tl, V, W, Y, Yb, Zn, Zr)	ASTM E1479, E1277, E2371, E2594
Combustion / LECO (C, S)	ASTM E1019, E1941
Inert Gas Fusion / LECO (N_2, O_2, H_2)	ASTM E1019, E1409, E1447, E2792
Electrolytic Chemistry (Cu)	ASTM E53[1]
Density and Porosity	ASTM B328:2009, B311, B962, B963, D792
Coating Weight Determination (Al, Pb, PO_4, Sn, Zn)	ASTM A90/A90M, A309:2015 (Method D), A428/A428M, B137, B767
SEM/EDS (Semi Quantitative)	ASTM E1508

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Test	Test Method(s)
Optical Emission Spectroscopy (OES)	ASTM E415, E1086, E1251, E1999, E2209
Carbon and Low Alloy Steel (Al, As, B, C, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, S, Sb, Si, Sn, Ti, V, W, Zr)	
Stainless Steel (Al, B, C, Co, Cr, Cu, Mn, Mo, N, Nb, Ni, P, S, Si, Sn, Ti, Ta, V, W)	
Aluminum Alloys (B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, In, Li, Mg, Mn, Na, Ni, P, Pb, Sb, Si, Sn, Ti, V, Zn, Zr)	
Nickel Alloys (Al, B, C, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, S, Si, Ta, Ti, V, W, Zr)	
Copper Alloys (Ag, Al, As, B, Be, Bi, C, Cd, Co, Cr, Cu, Fe, Mn, Mg, Ni, P, Pb, S, Sb, Se, Si, Sn, Te, Ti, Zn, Zr)	
Zinc Alloys (Al, Cd, Cr, Cu, Fe, In, Mg, Mn, Ni, Pb, Si, Sn)	
Cobalt Alloys (Al, C, Cr, Cu, Fe, Mn, Mo, Ni, P, S, Si, V, W)	

[1] This method can also be used for copper concentrations less than the ASTM E53 minimum Copper (Cu) purity range of 99.75 – 99.95%.

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Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY CHICAGO

Glendale Heights, IL

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 9th day of June 2026.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0104.01
Valid to June 30, 2028

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

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