



## SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

### ELEMENT MATERIALS TECHNOLOGY CHICAGO

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### CHEMICAL

Valid to: June 30, 2026

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)

ASTM E1479, E1277, E2371, E2594

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)

Combustion / LECO (C, S)

ASTM E1019, E1941

Inert Gas Fusion / LECO (N<sub>2</sub>, O<sub>2</sub>, H<sub>2</sub>)

ASTM E1019, E1409, E1447, E2792

Electrolytic Chemistry (Cu)

ASTM E53<sup>1</sup>

Density and Porosity

ASTM B328:2009<sup>2</sup>, B311, B962, B963, D792

Coating Weight Determination  
(Al, Pb, PO<sub>4</sub>, Sn, Zn)

ASTM A90/A90M, A309:2015<sup>2</sup> (Method D),  
A428/A428M, B137, B767

SEM/EDS (Semi Quantitative)

ASTM E1508

<u>Test</u>	<u>Test Method(s)</u>
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)	

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

<sup>2</sup> 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.



## 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 10<sup>th</sup> day of June 2024.

A handwritten signature in blue ink, appearing to read "Trace McInturff", is placed over a blue horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 0104.01  
Valid to June 30, 2026



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