



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT CLEVELAND  
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CHEMICAL

Valid To: September 30, 2026

Certificate Number: 0100.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on metals:

<u>Test</u>	<u>Test Method(s)</u>
Combustion Analysis (C, S)	
Low Alloy Steel Base Alloys, Stainless Steel Base Alloys, Ni Base Alloys, Co Base Alloys, Ti Base Alloys Exclusions: S in Ti Base, S in Co Base	ASTM E1019, E1941, SOP 10.04 <sup>1</sup>
Inert Gas Fusion (N, O)	ASTM E1019, SOP 10.08 <sup>1</sup>
Low Alloy steel Base Alloys, Stainless Base Alloys Ni Base Alloys, Co Base Alloys, Cu Base Alloys	
Inert Gas Fusion (N, O)	
Ti Base Alloys	ASTM E1409, SOP 10.08 <sup>1</sup>
Inert Gas Fusion (H)	
Ti Base Alloys	ASTM E1447, SOP 10.09 <sup>1</sup>
Optical Emission / ICP	
Fe Base Alloys (Al, B, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, Si, Ti, V, W)	ASTM D1976, E1479, SOP 10.30 <sup>1</sup>
Stainless Steel Base Alloys (Al, B, Co, Cr, Cu, Mn, Mo, Nb, Ni, P, Si, Ti, V, W)	ASTM D1976, E1479, SOP 10.30 <sup>1</sup> , SOP 10.21 <sup>1</sup>
Al Base Alloys (Be, Cr, Cu, Fe, Mg, Mn, Ni, Pb, Si, Sn, Ti, V, Zn, Zr)	ASTM D1976, E1479, SOP 10.30 <sup>1</sup> , SOP 10.20 <sup>1</sup>
Ni Base Alloys (Al, Co, Cr, Cu, Fe, Mn, Mo, Nb, P, Si, Ti, W, Zr)	ASTM D1976, E1479, E2594, SOP 10.30 <sup>1</sup> , SOP 10.19 <sup>1</sup>
Co Base Alloys (Al, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, Si, Ti, V, W)	ASTM D1976, E1479, SOP 10.30 <sup>1</sup> , SOP 10.24 <sup>1</sup>
Cu Base Alloys (Al, Be, Co, Cr, Fe, Mn, Ni, P, Pb, Si, Sn, Zn)	ASTM D1976, E1479, SOP 10.30 <sup>1</sup> , SOP 10.23 <sup>1</sup>

<u>Test</u>	<u>Test Method(s)</u>
<i>Optical Emission / ICP cont'd</i>	
Ti Base Alloys (Al, Cr, Cu, Fe, Mn, Mo, Ni, Si, Sn, V, Zr)	ASTM D1976, E1479, E2371, SOP 10.30 <sup>1</sup> , SOP 10.25 <sup>1</sup>
Mg Base Alloys (Al, Cr, Cu, Fe, Si, Mn, Ni, Pb, Sn, Zn, Zr)	ASTM D1976, E1479, SOP 10.30 <sup>1</sup> , SOP 10.29 <sup>1</sup>
<i>Optical Emission / Spark</i>	
Low Alloy Steel Base Alloys (Al, B, C, Cr, Cu, Mn, Mo, Ni, P, S, Si)	ASTM E415, SOP 10.05 <sup>1</sup>
Stainless Steel Base Alloys (Al, C, Cr, Co, Cu, Mn, Mo, N, Nb, Ni, P, S, Si, Ti, V, W)	ASTM E1086, SOP 10.05 <sup>1</sup>
Al Base Alloys (Be, Bi, Cr, Cu, Fe, Mn, Mg, Ni, Pb, Si, Sn, Ti, V, Zn, Zr)	ASTM E1251, E607, SOP 10.05 <sup>1</sup>
Ni Base Alloys (Al, C, Co, Cr, Cu, Fe, Mo, Mn, Nb, P, Si, Ta, Ti, W, Zr)	SOP 10.05 <sup>1</sup>
Co Base Alloys (Al, C, Cr, Cu, Fe, Mo, Mn, Nb, Ni, P, S, Si, V, W)	SOP 10.05 <sup>1</sup>
Graphite Furnace Atomic Absorption	
Ni Base Alloys (Ag, Bi, Pb, Se, Te, Tl)	ASTM E1184, SOP 10.40 <sup>1</sup>

<sup>1</sup>In-house test procedure.



# Accredited Laboratory

A2LA has accredited

## ELEMENT CLEVELAND

*Cleveland, OH*

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 6<sup>th</sup> day of September 2024.

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 0100.02  
Valid to September 30, 2026

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