



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CHICAGO SPECTRO SERVICE LABORATORY, INC.  
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Chicago, IL 60638  
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[geoff@chicagospectro.com](mailto:geoff@chicagospectro.com)

CHEMICAL<sup>1</sup>

Valid To: April 30, 2027

Certificate Number: 0781.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to the laboratory at the location listed above, as well as the satellite laboratory location listed below, to perform the following tests on fasteners and metals:

<u>Test</u>	<u>Test Method(s)</u>
<u>Spectroscopy</u>	
X-Ray Fluorescence Analysis	
Wavelength Dispersive X-Ray	ASTM E1621
Steel Analysis by XRF (Mg, Al, Si, P, S, Ca, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, As, Se, Sr, Y, Zn, Nb, Mo, Ag, Cd, In, Sn, Sb, Te, Ta, W, Au, W, Bi)	ASTM E1085
Atomic Absorption (Graphite Furnace) (Be, B, Na, Mg, Al, Si, P, K Ca, V, Cr, Mn, Fe, Cu, Ni, Zn, Ag, Sn, Sb, Pb, Bi)	ASTM E1184
Atomic Emission Spectrometry (AES)	
Al Alloys (Bi, Cr, Cu, Fe, Mg, Mn, Ni, Pb, Si, Sn, Ti, Zn)	ASTM E1251
Zinc Alloys (Al, Cd, Cr, Cu, Fe, Mg, Mn, Ni, Pb, Si, Sn)	CSSL 10.8.2
Low Alloy Steel (Al, B, C, Cr, Cu, Mo, Mn, Nb, Ni, P, S, Si, Ti, V)	ASTM E415
Stainless Steel (Al, B, C, Cr, Cu, Mo, Mn, Nb, Ni, P, S, Si, Ti, V)	ASTM E1086
Combustion Analysis (C, S)	ASTM E1019
<u>Wet Chemistry Measurements</u>	
Volumetric	
Tin in Solders	CSSL Procedure 10.4.11

**Test**

**Test Method(s)**

Wet Chemistry Measurements (cont'd)

Gravimetric

Density (Powder Metal)

ASTM B328

Tin Coating Weight

ASTM B545, B659

Zinc Coating Weight

ASTM A90, B659, B767

MECHANICAL

Bend Test for Ductility of Welds

ASTM E190

Hardness

Rockwell B, C

ASTM E18

Superficial 15T, 30T, 45T

ASTM E18

Superficial 15N, 30N, 45N

ASTM E18, F606/F606M

Microhardness

ASTM E384

Microscopy

Sample Preparation

ASTM E3

Grain Size – Comparison Method

ASTM E112 (Section 10)

Microstructure

ASTM E112

Tensile – Metals (TS, YS, EL, R of A) 200,000 lbs max

ASTM A370, B557, E8/E8M

Tensile – Fasteners (Wedge, Axial, Proof Load)

ASTM F606/F606M

<sup>1</sup>This accreditation covers testing performed at the main laboratory listed above, and the following satellite laboratory listed below.

WELDBEND CORPORATION  
6600 S. Harlem Ave.  
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[geoff@chicagospectro.com](mailto:geoff@chicagospectro.com)

CHEMICAL

<u>Test</u>	<u>Test Method(s)</u>
Atomic Emission Spectrometry (AES) Low Alloy Steel (Al, C, Cr, Cu, Mo, Mn, Nb, Ni, P, S, Si, Ti, V)	ASTM E415

MECHANICAL

<u>Test</u>	<u>Test Method(s)</u>
Tensile – Metals (TS, YS, EL, R of A)	ASTM A370, E8/E8M
Hardness	
Rockwell B, C	ASTM E18
Brinell (3000Kg, 10 mm Ball)	ASTM E10
Macro Vickers HV10	ASTM E92
Charpy V Notch (Room Temperature to -100°F) 400 ft/lbs	ASTM E23, A370



## Accredited Laboratory

A2LA has accredited

# CHICAGO SPECTRO SERVICE LABORATORY, INC.

Chicago, 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 17<sup>th</sup> day of March 2025.

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 0781.01  
Valid to April 30, 2027

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