



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CHICAGO SPECTRO SERVICE LABORATORY, INC.
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CHEMICAL¹

Valid To: April 30, 2025

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, Co, 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)
 Electrolytic Copper
 Tin Coating Weight
 Zinc Coating Weight

ASTM B328
 ASTM E478 Modified (Sections 10-18)
 ASTM B545, B659
 ASTM A90, B659, B767

Mechanical Testing

Bend Test for Ductility of Welds

ASTM E190

Hardness

Rockwell B, C
 Superficial 15T, 30T, 45T
 Superficial 15N, 30N, 45N
 ---Microhardness

ASTM E18
 ASTM E18
 ASTM E18, F606/F606M
 ASTM E384

Microscopy

Sample Preparation
 Grain Size – Comparison Method
 Microstructure

ASTM E3
 ASTM E112 (Section 10)
 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

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

WELDBEND CORPORATION
 6600 S. Harlem Ave.
 Argo/Summit, IL 60501-1930
 Geoffrey Goldblatt Phone: 773 229 0099
 geoff@chicagospectro.com

Test**Test Method(s)**

Atomic Emission Spectrometry (AES)

Low Alloy Steel
 (Al, C, Cr, Cu, Mo, Mn, Nb, Ni, P, S, Si, Ti, V)

ASTM E415

Tensile – Metals (TS, YS, EL, R of A)

ASTM A370, E8/E8M

Hardness

Rockwell B, C
 Brinell (3000Kg, 10 mm Ball)

ASTM E18
 ASTM E10

Test

Macro Vickers HV10

Charpy V Notch (room temperature to -100°F) 400 Ftlbs

Test Method(s)

ASTM E92

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 19th day of June 2023.

A blue ink signature of Mr. Trace McInturff, written over a horizontal line.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0781.01
Valid to April 30, 2025

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