



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CHICAGO SPECTRO SERVICE LABORATORY, INC.

6245 South Oak Park Avenue

Chicago, IL 60638

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CHEMICAL¹

Valid To: April 30, 2019

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 types of tests on fasteners and metals:

<u>Test</u>	<u>Test Method(s)</u>
<u>Spectroscopy</u>	
X-Ray Fluorescence	
Wavelength Dispersive X-Ray	ASTM E1621
Steel Analysis by XRF	ASTM E1085
Atomic Absorption	ASTM E1184
Optical Emission Spectroscopy (OES)	
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(13) [Modified ASTM E227]
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 by LECO (C, S)	ASTM E1019
<u>Wet Chemistry Measurements</u>	
Volumetric	
High Phos. in Brazing Alloys	ASTM E156 (withdrawn 1993) ²
Photometric	ASTM E60
Photometric Copper	ASTM E62
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 (Sections 9-17)
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

ASTM E18
ASTM E18
ASTM E18, F606/F606M

Tensile – Metals (TS, YS, EL, R of A)

ASTM A370, B557, E8/E8M
F606/F606M

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

²This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

WELDBEND CORPORATION
6600 S. Harlem Ave.
Argo/Summit, IL 60501-1930
Michael Landow Phone: 773 229 0099
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Test

Test Method(s)

OES

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
Vickers HV10

ASTM E18
ASTM E10
ASTM E384

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

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 17025:2005 *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 8 January 2009).



Presented this 7th day of March 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 0781.01
Valid to April 30, 2019

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