



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

WESCO AIRCRAFT HARDWARE CORPORATION
27727 Avenue Scott
Valencia, CA 91355
Viktoria Kravchenko Phone: (661) 775 7312

MECHANICAL

Valid To: September 30, 2019

Certificate Number: 2905.01

In recognition of the successful completion of the A2LA Accreditation Program, accreditation is granted to this laboratory to perform the following types of tests on Metals and Fasteners:

Test:

Test Methods:

Hardness Testing:

Rockwell (HRBW, HRC, and HRFW)

ASTM E18; NASM 1312-6

Microhardness

Vickers (500 gf)

ASTM E384; NASM 1312-6

Knoop (500 gf)

ASTM E384; NASM 1312-6

Mechanical Testing:

Driveability Test: Rivets Products

NASM 5674

Recess Torque Test

NASM 1312-25

Tensile Test: Axial Strength of Fasteners at Room Temperature

ASTM F606; NASM 1312-8

Shear Strength

Double

ASTM B565; NASM 1312-13

Single

NASM 1312-20

Torque Testing

Locking Torque, Torque-Off, Pre-Load, Break-Away Torque

NASM 1312-31, 25027;
NW2827

Test:

Test Methods:

Metallographic Evaluation:

Alpha Case ¹	AMS 2380; NAS4004
Case Depth (Visual and Hardness Traverse Method)	ASTM E 384; SAE J423
Coating Thickness (Microscopical Method)	ASTM B487; NASM 1312-12
Depth of Decarburization (Visual and Microhardness Method)	ASTM E1077
Grain Size (Comparison and Intercept)	ASTM E112
Macroscopic Examination by Etching ¹	ASTM E340; NW2807
Microstructure Examination by Etching ¹	ASTM E407; NW2807
Surface Discontinuities ¹	NW2807

Nondestructive Testing:

Magnetic Permeability using Low-Mu Permeability Indicator	ASTM A342
-----------------------------------------------------------	-----------

Chemical Properties:

Fusion Analysis for Oxygen/Nitrogen Determination	ASTM E1409; NW2816
Fusion Analysis for Hydrogen Determination	ASTM E1447; NW2816
Glow Discharge Atomic Emission Spectrometry (GDS/OES): Elemental Analysis of the following:	
Aluminum Alloy (Al, Cu, Cr, Fe, Mg, Mn, Pb, Si, Ti, V, Zr)	ASTM E1251; NW2814
Low Alloy Steel (C, Cr, Cu, Fe, Mn, Mo, Ni, P, S, Si)	ASTM E415; NW2814
Nickel-Copper Alloy (Monel) (Al, C, Co, Cu, Fe, Mn, Ni, S, Si)	NW2814
Nickel-Chromium (Inconel) (Al, B, C, Cr, Co, Cu, Fe, Mn, Mo, Nb, Ni, P, S, Si, Ta, Ti)	NW2814
Stainless Steel (Fe Base, High Alloy) (Al, B, C, Co, Cr, Cu, Fe, Mn, Mo, Nb, Ni, P, S, Si, Ti)	ASTM E1086; NW2814
Titanium Alloy (Al, C, Cr, Fe, Si, Ti, V, Zr)	NW2814

¹ Aircraft fasteners are inspected to the individual requirements of the procurement specification or fastener drawing. Each specification has its own evaluation requirements (i.e. Microstructure, surface discontinuities, etc.).





Accredited Laboratory

A2LA has accredited

WESCO AIRCRAFT HARDWARE CORPORATION

Valencia, CA

for technical competence in the field of

Mechanical 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 11th day of July 2017.

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

President and CEO
For the Accreditation Council
Certificate Number 2905.01
Valid to September 30, 2019

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