



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

COPPER STATE BOLT & NUT CO.¹
Manufacturing Division
3637 North 34th Avenue
Phoenix, AZ 85017
Kristopher Clemmens Phone: 602 477 7306

MECHANICAL

Valid To: August 31, 2026

Certificate Number: 0809.01

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

Test:

Test Method(s):

Hardness	ASTM E18, F606/F606M
Rockwell B, C	
Superficial 30N	
Proof Load (<i>externally threaded fasteners</i>)	ASTM F606/F606M
Tensile Strength	ASTM F606/F606M
Wedge	
Axial	
Tensile Properties of Machined Specimens	ASTM E8/E8M, F606/F606M
Tensile Strength	
Offset Yield Strength	
Percent Elongation	
Percent Reduction in Area	

I. Dimensional Testing²

Parameter/Equipment	Range	CMC ³ (\pm)	Comments
Threads (External) – Measure ⁴	(1/2 to 3) in	0.0002 in	Tri-rolls/ASME B1.1, B1.2, B1.3M (systems 21, 22)
	Up to 4 in	0.0005 in	Ring gages/ASME B1.1, B1.2, B1.3M (systems 21, 22)
Linear – Measure ⁴ (1D)	X: Up to 6 in	0.001 in	Calipers/MIL-STD-120
	X: Up to 18 in	0.002 in	
	X: Up to 4 in	0.0005 in	Micrometers/MIL-STD-120
Linear – Measure ⁴ (2D)	X: Up to 12 in Y: Up to 6 in	0.0005 in 0.0005 in	Optical comparator/ MIL-STD-120
Angle – Measure ⁴	Up to 180°	0.2°	Optical comparator/ MIL-STD-120
	Up to 360°	0.4°	
Radii – Measure ⁴	Up to 0.650 in	0.001 in	Optical comparator/ MIL-STD-120

COPPER STATE BOLT & NUT CO.¹
Heat Treating Division
720 West Illini Street
Phoenix, AZ 85041
Kris Clemmens Phone: 602 477 7306

Test:

Hardness
Rockwell C

Carburization/Decarburization

Test Method(s):

ASTM E18, F606/F606M

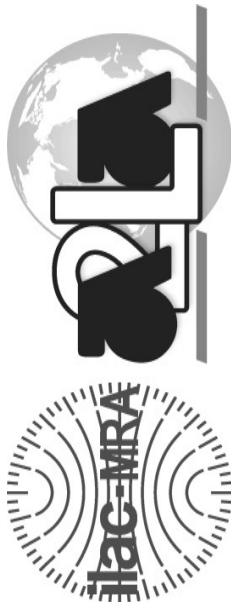
ASTM F835, F2328

¹ This accreditation covers testing performed at all laboratory locations listed in this scope of accreditation.

² This laboratory does not offer commercial dimensional testing services.

³ Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine measurements of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific measurement performed by the laboratory may be greater than the CMC uncertainty due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

⁴ This test is not equivalent to that of a calibration.



Accredited Laboratory

A2LA has accredited

COPPER STATE BOLT & NUT CO.

Phoenix, AZ

for technical competence in the field of

Mechanical 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 23rd day of March 2025.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0809.01
Valid to August 31, 2026



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