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

5202 Presidents Court, Suite 220 | Frederick, MD 21703-8398 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

I. Dimensional Testing[2]

Parameter/Equipment	Range	CMC[3] (±)	Comments
Threads (External) – Measure[4]	(1/2 to 3) in Up to 4 in	0.0002 in 0.0005 in	Tri- rolls/ASME B1.1, B1.2, B1.3M (systems 21, 22) Ring gages/ASME B1.1, B1.2, B1.3M (systems 21, 22)
Linear – Measure[4] (1D)	X: Up to 6 in X: Up to 18 in X: Up to 4 in	0.001 in 0.002 in 0.0005 in	Calipers/MIL-STD-120 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 180º Up to 360º	0.2º 0.4º	Optical comparator/ MIL-STD-120
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:	**Test Method(s):**
Hardness Rockwell C	ASTM E18, F606/F606M
Carburization/Decarburization	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*).

American Association for Laboratory Accreditation CORPORATE SEAL 1978 DISTRICT OF COLUMBIA A2LA

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.