



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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MECHANICAL

Valid To: February 28, 2022

Certificate Number: 2625.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on internally and externally threaded fasteners:

<u>Test</u>	<u>Test Method(s)</u>
Carburization	ASTM F2328; SAE J423
Decarburization	ASTM F2328; ISO 898-1; SAE J419
Drill Drive	SAE J78
Drive Test	SAE J81, J933
Hardness (HRC, B, 15N, 30N) ¹	ASTM E18, F606/F606M
Hydrogen Embrittlement	ASTM F606/F606M; SAE J78, J81
Microhardness (Knoop, 500 gf, Vickers, 300 gf)	ASTM E384
Prevailing Torque	IFI 124, 524, 100/107 (Withdrawn 2007 ²); ISO 2320
Proof Load (Internal & External Threads) ¹	ASTM F606/F606M; ISO 898-1
Surface Discontinuities	ASTM F788/F788M (Withdrawn 2012 ²), F812/F812M (Withdrawn 2012 ²)
Salt Spray	ASTM B117
Tensile (Axial, Wedge) ¹	ASTM F606/F606M; ISO 898-1
Torsional Strength	SAE J78, J81, J933

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Dimensional Testing³

Parameter	Range	CMC ⁴ (±)	Technique / Method
Angle ⁵	Up to 360°	18'	Optical comparator / MIL-STD-120 (Withdrawn ²); ANSI B1.3M (Withdrawn ²); B18.2.1
Radius ⁵	Up to 1 in Up to 25.40 mm	0.001 in 0.025 mm	Optical comparator / MIL-STD-120; ANSI B1.3M; B18.2.1
Linear ⁵	Up to 2 in Up to 50.80 mm Up to 6 in Up to 152 mm	0.0002 in 0.005 mm 0.001 in 0.025 mm	Digital micrometer / MIL-STD-120 (Withdrawn ²); ANSI B1.3M (Withdrawn ²); B18.2.1 Digital caliper / ANSI B18.2.1; MIL-STD 120 (Withdrawn ¹)
Thread Functional Diameter ⁵	#4 to 1-1/2 in M4 to M24	N/A Go/no-go	Thread plug & Ring gages / ANSI B1.3M (Withdrawn ²)

¹ The laboratory is only accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed below. The inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications nor does it confer accreditation for the method(s) embedded within the specifications.

SAE J429
SAE J995

² This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

³ This laboratory offers noncommercial dimensional testing service only.

⁴ Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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 due to the behavior of the customer's device and to influences from the circumstances of the specific measurement.

⁵ This test is not equivalent to that of a calibration.



Accredited Laboratory

A2LA has accredited

FACIL NORTH AMERICA, INC.

Twinsburg, OH

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 30th day of December 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2625.01
Valid to February 28, 2022

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