SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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TESTING AND DIMENSIONAL MEASUREMENT

Valid to: **November 17, 2025** Certificate Number: **L2192**

TESTING

Mechanical

Specific Tests and/or Properties Measured	Specification, Standard, Method, or Test Technique	Items, Materials or Product Tested	Key Equipment or Technology
Rockwell Hardness: HRC, HRBW, HR15N	ASTM E18, ISO 6508-1	Fasteners	Rockwell Hardness Tester
Vickers Hardness (HV)	ASTM E3, ASTM E384, ISO 6507-1	Fasteners	Vickers Hardness Tester
Prevailing Torque	GM9084P, GM9092P, ISO 2320	Fasteners: (1/4 to 13/16) in (M5 to M30)	Torque Tension Tester, Torque Wrench
Salt Spray	ASTM B117	Fasteners	Salt Spray Chamber
Coating Thickness	ASTM B499	Fasteners	Thickness Gauge (0 to 22.4) µm
Tensile Strength and Proof Load	ASTM F606, ASTM F606M, ISO 2320, ISO 898-1, ISO 898-2	Fasteners	Tensile Testing Machine
Embrittlement	SAE/USCAR-7	Fasteners	Torque Wrench
Drive Capability	ISO 2702	Fasteners – tapping screws	Test Plate and Torque Wrench
Torsional Strength	ISO 2702	Fasteners – tapping screws	Torque Wrench

DIMENSIONAL MEASUREMENT

1D - Dimensional

Parameter	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Dimensional Measurement 1D	(0 to 0.02) in	78 µin	Dial Indicators utilized as Reference Standard
	(0 to 1) in	200 µin	Micrometers utilized as Reference Standard
	(0 to 6) in	650 µin	Vernier Calipers utilized as Reference Standard
Internal Threads: Pitch Diameter Minor Diameter	(1/4 to 3/4) in and (M6 to M16)	140 µin 150 µin	ASME B1.3 System 21 and System 22: Plug Gauges, Thread Plug Gauges and Johnson Gauge System (Variable Threads) utilized as Reference Standards
External Threads: Pitch Diameter Major Diameter	(1/4 to 3/4) in and (M6 to M16)	140 µin 200 µin	ASME B1.3 System 21 and System 22: Micrometer, Thread Ring Gauges, Thread Micrometer utilized as Reference Standards

2D - Dimensional

Parameter	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method and/or Equipment
Dimensional Measurement 2D	X: (0 to 10) in Y: (0 to 5) in	320 µin	Optical Comparator utilized as Reference Standard
Dimensional Measurement: Angle	10° to 60°	0.11°	

Calibration and Measurement Capability (CMC) represents expanded uncertainties at approximately a 95% confidence level using a coverage factor of k=2.

Note(s):

1. Laboratory provides in-house final product testing and certification.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. L2192

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