

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SPECIALTY SCREW CORPORATION
2801 Huffman Boulevard
Rockford, IL 61103
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MECHANICAL

Valid To: November 30, 2017

Certificate Number: 0585.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following fastener tests:

<u>Test(s):</u>	<u>Test Method(s):</u>
Case Depth (Total and Effective)	SAE J423
Coating Thickness	ASTM B499
Decarburization	SAE J121, J121M
Ductility	SAE J81 (Sec. 4.8)
Hardness (Rockwell: A, B, C, 15N, 30N)	ASTM E18
Macroscopic Examination	ASTM E340, F788; SAE USCAR-8
Microhardness (Knoop, 500 gf)	ASTM E384
Salt Spray (Fog)	ASTM B117
Sample Preparation	ASTM E3
Sample Selection	ASME/ANSI B 18.18.2M; Customer Specified Requirements
Stress Durability (Hydrogen Embrittlement)	ASTM F606/F606M; J81 (Sec. 4.9)
Surface Roughness	ASME B46.1
Tensile (Axial & Wedge)	ASTM F606/F606M (Sec. 3.1, 3.4, 3.5, 6.7); SAE J429, J1199
Torsional Strength	SAE J81 (Sec. 4.5)

I. Dimensional Testing¹

Parameter	Range	CMC ² (±)	Technique / Method
Angle ³	0° to 360°	1°	Comparator / MIL-STD 120 (Canceled 1996) ⁴
Linear ³	Up to 6 in Up to 1 in Up to 6 in	0.001 in 0.0001 in 0.001 in	MIL-STD 120 (Canceled 1996) ⁴ Comparator Digital micrometer Digital caliper
Radii ³	(0.005 to 1) in	0.006 in	Comparator / MIL-STD 120 (Canceled 1996) ⁴
Recesses ³	#1 to #4	0.0004 in	Penetration gage / MIL-STD 120 (Canceled 1996) ⁴
Straightness ³	Up to 0.030 in	0.0004 in	Concentricity and Straightness Gages / MIL-STD 120 (Canceled 1996) ⁴
Threads ³	#4 to 5/8 in (0.100 to 0.700) in (0.100 to 0.700) in	N/A 0.0001 in 0.0001 in	ASME B1.3M (System 21 and System 22) Ring gages Tri-roll Pitch micrometer

¹ This laboratory offers dimensional testing service only.

² 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.

³ This test is not equivalent to that of a calibration.



⁴ 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.

A handwritten signature in black ink, appearing to read "Peter Abney". The signature is written in a cursive style with a large initial "P".



Accredited Laboratory

A2LA has accredited

SPECIALTY SCREW CORPORATION

Rockford, IL

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 22nd day of December 2015.

A handwritten signature in black ink, reading "Peter Abney".

President & CEO
For the Accreditation Council
Certificate Number 0585.01
Valid to November 30, 2017

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