



The American Association for Laboratory Accreditation

World Class Accreditation

# Accredited Laboratory

A2LA has accredited

## SPECIALTY SCREW CORPORATION

Rockford, IL

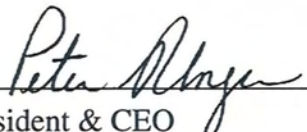
for technical competence in the field of

### 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 28th day of October 2009.



  
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President & CEO  
For the Accreditation Council  
Certificate Number 0585.01  
Valid to November 30, 2011

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SPECIALTY SCREW CORPORATION  
2801 Huffman Boulevard  
Rockford, IL 61103  
Russ Johansson Phone: 815 969 4100

MECHANICAL

Valid To: November 30, 2011

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:

Test(s):

Test Method(s):

Sample Selection

ASME/ANSI B 18.18.2M  
or customer as specified requirements

Sample Preparation

ASTM E3

Hardness (Rockwell: A, B, C, 15N, 30N)

ASTM E18; SAE J417

Microhardness (Knoop)

ASTM E384

Tensile (Axial & Wedge)

ASTM F606, F606M (sec. 3.1, 3.4, 3.5, 6.7);  
SAE J429, J995, J1199

Macroscopic Examination

ASTM E340

Stress Durability (Hydrogen Embrittlement)

ASTM F606, F606M; MIL-STD 1312-5;  
SAE J78 (sec 4.4.1), J81 (sec. 4.9)

Torsional Strength

SAE J81 (sec. 4.5)

Ductility

SAE J81 (sec. 4.8)

Salt Spray (Fog)

ASTM B117

Case Depth (Total and Effective)

SAE J423

Coating Thickness

ASTM B499

Dimensional Testing:

<u>Parameter</u>	<u>Range</u>	<u>CMC* (+/-)</u>	<u>Technique</u>	<u>Standards</u>
Threads	(#4 to 5/8) in	n/a	Ring gages	ASME B1.3M (System 21 and System 22)
	(0.100 to 0.700) in	0.0001 in	Tri-roll	
	(0.100 to 0.700) in	0.0003 in	Pitch micrometer	
Angle	(0 to 360) °	05'	Comparator	MIL-STD 120
Radii	(0.005 to 1) in	0.0009 in	Comparator	MIL-STD 120
Recesses	#1 - #4	0.0002 in	Penetration gage	ASME B18.6.4
Straightness	n/a	0.0005 in	Concentricity & Straightness gages	MIL-STD 120
Linear	(0 to 6) in	0.0004 in	Comparator	MIL-STD 120
	(0 to 1) in	0.0002 in	Digital micrometer	
	(0 to 6) in	0.0005 in	Digital caliper	
	(0 to 1) in	0.0002 in	Analog micrometer	
	(0 to 6) in	0.0002 in	Analog caliper	

\*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.