



SCOPE OF ACCREDITATION TO ISO/IEC 17025: 2005

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MECHANICAL

Valid To: January 31, 2019

Certificate Number: 2772.01

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

<u>Test:</u>	<u>Test Method(s):</u>
Hardness - Rockwell (A, B, C, 15N, 30N, 45N)	ASTM E18
Microhardness (HV.2, HV.3, HV.5, HV1)	ASTM E384
External Threads Tensile (Wedge/Axial)	ASTM F606, F606M; ISO 898-1; SAE J429; GM500M ¹
Proof	ASTM F606, F606M; ISO 898-1; SAE J429; GM500M ¹
Torsional Strength	ISO 898-7; SAE J1237, J81
Torque Tension	ISO 16047; GMW16730; SAE/USCAR-11
De-embrittlement Verification	SAE/USCAR-7
Surface Discontinuities	ISO 6157-3 (3.6 - Lap on the Thread); GM6102M (3.2.7 - Lap in Screw Thread); PF-5188(S) (2.1.7 - Lap in Screw Threads)
Decarburization	ISO 898-1; GM500M ¹ , GM6104M ¹
Grain Flow	SAE/USCAR-8
Tensile Test for Safety Belt Anchor Bolts	GM9639P

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Test:

Tensile Testing of Metallic Material
(Tensile Strength/Elongation/Reduction of Area/Yield Strength)

Plating Thickness

Coating Thickness

Effective Case Depth

Salt Spray

Test Method(s):

ASTM E8, E8M; ISO 6892-1

ASTM B568 (X-Ray); ISO 3497

ASTM B499

SAE J423

ASTM B117; ISO 9227; SAE/USCAR-1

Chemical

Optical Emission Spectroscopy

Carbon and Low-Alloy Steel:

(C, Si, Mn, P, S, Cr, Ni, Mo, Cu, Al, As, Co, Sn, Ti, V, Ca, Zr);

Stainless Steel:

(C, Si, Mn, P, S, Cr, Ni, Mo, Cu);

Aluminum and Aluminum Alloys:

(Si, Fe, Cu, Mn, Mg, Cr, Ni, Zn, Ti, Be, Bi, Ca, Cd, Ga, Na, P,
Pb, Sb, Sn, Sr, V, Zr)

ASTM E415, E1086;

GB/T 4336, 11170, 7999

¹ This material specification is not an accredited test and the inclusion of this material specification on this Scope does not confer laboratory accreditation to the material specification nor does it confer accreditation for the method(s) embedded within the specification. The accredited test methods listed on this scope are used in determining compliance with this material specification.



Accredited Laboratory

A2LA has accredited

PEM (CHINA) CO., LTD.

Jiangsu Province, People's Republic of China

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 5th day of April 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 2772.01
Valid to January 31, 2019

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