



World Class Accreditation

The American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

PEM (CHINA) CO., LTD.

Jiangsu Province,

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 23rd day of December 2008.



President & CEO

For the Accreditation Council
Certificate Number 2772.01
Valid to January 31, 2011
Revised August 25, 2009

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

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MECHANICAL

Valid To: January 31, 2011

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 Methods</u> |
|--|--|
| Hardness (Rockwell) C, B, 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; GM 500M |
| Proof | ASTM F606, F606M; ISO 898-1; SAE J429; GM 500M |
| Torsional Strength | ISO 898-7 |
| Torque Tension | ISO 16047 |
| De-embrittlement Verification | SAE/USCAR-7 |
| Surface Discontinuities | ISO 6157-3 (3.6 lap on the thread); GM 6102 (3.27 lap in screw thread) |
| Decarburization | ISO 898-1; GM 500M |
| Grain Flow | SAE/USCAR-8 |
| Plating Thickness (Zn-Fe, Ni/Cu-Fe, Sn/Cu-Fe) | ASTM B568 (X-Ray) |
| Effective Case Depth | SAE J423 |
| Salt Spray | ASTM B117 |
| <u>Chemical</u> | |
| Optical Emission Spectroscopy (Carbon and Low Alloy Steels) | ASTM E415 |

(A2LA Cert. No. 2772.01) Revised 08/25/09

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