



SCOPE OF ACCREDITATION TO ISO/IEC 17025 :2005

CHEM-PLATE INDUSTRIES, INC.¹
1800 Touhy Avenue
Elk Grove Village, IL 60007
Virginia Gibbs Phone: 847 473 4793

MECHANICAL

Valid To: October 31, 2019

Certificate Number: 0940.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location listed above as well as the two satellite laboratory locations listed below to perform the following test on fasteners:

Test

Test Method(s)

Rockwell Hardness (A, BW, C, 15N, 30N)

ASTM E18, F606/F606M;
GM 6010M (Section 3.1) (*superseded*)²,
GM 6170M (Section 3.1) (*superseded*)²,
GM 6171M (Section 3.1) (*superseded*)²;
ISO 898-1 (Section 9.9);
ISO 2702 (Section 4.1.3)

Microhardness (Knoop 500 gf, Vickers 300 gf)

ASTM E384;
GM 6010M (Section 3.2) (*superseded*)²,
GM 6170M (Section 3.2) (*superseded*)²,
GM 6171M (Section 3.2) (*superseded*)²;
SAE J419;
ISO 898-1 (Section 9.11);
ISO 2702 (Section 4.1.1)

Torsional Strength

GM 6010M (Section 3.5) (*superseded*)²,
GM 6170M (Section 3.5) (*superseded*)²,
GM 6171M (Section 3.6) (*superseded*)²;
ISO 2702 (Section 4.1.3)

Case Depth (Traverse and Visual)

GM 6010M (Section 3.3) (*superseded*)²,
GM 6170M (Section 3.3) (*superseded*)²,
GM 6171M (Section 3.6) (*superseded*)²;
SAE J423;
ISO 2702 (Section 4.1.2)

Decarburization

ASTM F2328, F2328M;
SAE J121 (*superseded*)²,
SAE J121M (*superseded*)², SAE J419;
ISO 898-1 (Section 9.10)

(A2LA Cert. No. 0940.01) 12/13/2017

Page 1 of 5

Test

Test Method(s)

Wedge Tensile

ASTM F606/F606M;
ISO 898-1;
SAE J429³;
GM 6170M (Section 3.5) (*superseded*)²,
GM 6171M (Section 3.5) (*superseded*)²

Axial Tensile

ASTM F606/F606M;
ISO 898-1;
SAE J429³

Ductility

GM 6010M (Section 3.7) (*superseded*)²,
GM 6170M (Section 3.8) (*superseded*)²,
GM 6171M (Section 3.8) (*superseded*)²

¹ This accreditation covers testing performed at the main laboratory listed above, and the satellite laboratories listed on the following pages.

² This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.

³ The laboratory is accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed; however, the inclusion of these material specifications on this Scope does not confer laboratory accreditation to the material specifications. Inclusion of these material specifications on this Scope also does not confer accreditation for every method embedded within the specification. Only the methods listed above on this Scope are accredited."

CHEM-PLATE INDUSTRIES, INC.
1990 East Devon Avenue
Elk Grove Village, IL 60007

<u>Test</u>	<u>Test Method(s)</u>
Rockwell Hardness (A, BW, C, 15N, 30N)	ASTM E18, F606/F606M; GM 6010M (Section 3.1) (<i>superseded</i>) ² ; GM 6170M (Section 3.1) (<i>superseded</i>) ² ; GM 6171M (Section 3.1) (<i>superseded</i>) ² ; ISO 898-1 (Section 9.9); ISO 2702 (Section 4.1.3)
Microhardness (Knoop 500 gf)	ASTM E384; GM 6010M (Section 3.2) (<i>superseded</i>) ² ; GM 6170M (Section 3.2) (<i>superseded</i>) ² ; GM 6171M (Section 3.2) (<i>superseded</i>) ² ; SAE J419; ISO 898-1 (Section 9.11); ISO 2702 (Section 4.1.1)
Neutral Salt Spray	ASTM B117; ISO 9227; SAE/USCAR-1
Measurement of Coating Thickness Eddy Current / Magnetic X-Ray	ASTM B499, B568, E376
Coating Weight	QP-DZ-01 (NOF Metal Coatings)
Adhesion	ISO 2819
Hydrogen Embrittlement (Threaded Parts)	GM 6010M (Section 4.7) (<i>superseded</i>) ² ; GM 6170M (Section 3.9) (<i>superseded</i>) ² ; GM 6171M (Section 3.9) (<i>superseded</i>) ² ; USCAR-7
Torsional Strength	GM 6010M (Section 3.5) (<i>superseded</i>) ² ; GM 6170M (Section 3.6) (<i>superseded</i>) ² ; GM 6171M (Section 3.6) (<i>superseded</i>) ² ; ISO 898-1 (Section 9.13); ISO 2702 (Section 4.2.2)
Case Depth (Traverse and Visual)	GM 6010M (Section 3.3) (<i>superseded</i>) ² ; GM 6170M (Section 3.3) (<i>superseded</i>) ² ; GM 6171M (Section 3.6) (<i>superseded</i>) ² ; SAE J423; ISO 2702 (Section 4.1.2)

Test

Test Method(s)

Decarburization

ASTM F2328, F2328M;
SAE J121 (*superseded*)²,
SAE J121M (*superseded*)², SAE J419;
ISO 898-1 (Section 9.10)

Ductility

GM 6010M (Section 3.7) (*superseded*)²,
GM 6170M (Section 3.8) (*superseded*)²,
GM 6171M (Section 3.8) (*superseded*)²

CHEM-PLATE INDUSTRIES, INC.
1250 Morse Avenue
Elk Grove Village, IL 60007

Test

Test Method(s)

Rockwell Hardness (A, BW, C, 15N)

ASTM E18, F606/F606M;
GM 6010M (Section 3.1) (*superseded*)²,
GM 6170M (Section 3.1) (*superseded*)²,
GM 6171M (Section 3.1) (*superseded*)²;
ISO 898-1 (Section 9.11);
ISO 2702 (Section 4.1.3)

Microhardness (Vickers 300 gf)

ASTM E384;
GM 6010M (Section 3.2) (*superseded*)²,
GM 6170M (Section 3.2) (*superseded*)²,
GM 6171M (Section 3.2) (*superseded*)²;
SAE J419;
ISO 898-1 (Section 9.11);
ISO 2702 (Section 4.1.1)

Neutral Salt Spray

ASTM B117;
ISO 9227;
SAE/USCAR-1

Measurement of Coating Thickness
Eddy Current / Magnetic X-Ray

ASTM B499, B568, E376

Torsional Strength

GM 6010M (Section 3.5) (*superseded*)²,
GM 6170M (Section 3.6) (*superseded*)²,
GM 6171M (Section 3.6) (*superseded*)²

Test

Test Method(s)

Case Depth (Traverse and Visual)

GM 6010M (Section 3.3) (*superseded*)²,
GM 6170M (Section 3.3) (*superseded*)²,
GM 6171M (Section 3.6) (*superseded*)²;
SAE J423;
ISO 2702 (Section 4.1.2)

Decarburization

ASTM F2328, F2328M;
SAE J121 (*superseded*)²,
SAE J121M (*superseded*)¹, SAE J419;
ISO 898-1 (Section 9.10)

Ductility

GM 6010M (Section 3.7) (*superseded*)²,
GM 6170M (Section 3.8) (*superseded*)²,
GM 6171M (Section 3.8) (*superseded*)²

Torque-Tension

ISO 16047;
JDM F15X;
GMW3044

Adhesion

ISO 2819



Accredited Laboratory

A2LA has accredited

CHEM-PLATE INDUSTRIES INC.

Elk Grove Village, 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 13th day of December 2017.

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

President and CEO
For the Accreditation Council
Certificate Number 0940.01
Valid to October 31, 2019

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