



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SGS North America Inc.  
Operating at 1390 N. 25<sup>th</sup> Avenue  
Melrose Park, IL 60160  
George Prause Phone: 708 343 3444  
Email: george.prause@sgs.com

MECHANICAL

Valid To: December 31, 2026

Certificate Number: 0510.01

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

<u>Test Description:</u>	<u>Test Method(s):</u>
Bend	ASTM A370 Sec. 15, ASTM E290 Guided Bend, Semi- Guided Bend; AWS B4.0 (Part A)
Case Depth	SAE J423
Charpy Impact Testing (Type A)	ASTM E23; ISO 148-1; JIS Z 2202, JIS Z 2242
Coating Weight (Zn)	ASTM A90
Decarburization Exam	ASTM E1077, ASTM F2328; J419
Detrimental Intermetallic Phases in Duplex Stainless Steels	ASTM A923
Discontinuity Exam	ASTM A574, F788, F812; ISO 898-1
Failure Investigation	ASM Metals Handbook Vol. 11
Grain Size Exam	ASTM E112, E930, E1181
Graphite Microstructure	ASTM A247
Inclusion or Second-Phase Content by Automatic Image Analysis	ASTM E1245
Intergranular Attack in Austenitic (SS)	ASTM A262 (Practice A, C, &E); ISO 3651-2, Method A
Jominy Hardenability	ASTM A255; SAE J406; ISO 642; CAT 1E0024

<b><u>Test Description:</u></b>	<b><u>Test Method(s):</u></b>
<b>Hardness</b> Rockwell: A, BW, C, 15N, 30N, 45N 15TW, 30TW, 45TW Brinell: 187.5, 500, 750, 3000Kgf, Ball Dia. 2.5, 5.0 and 10 mm Macro Vickers: HV 5Kgf, 10Kgf	ASTM E18; ASTM F606/606M; SAE J429;  ASTM E10;  ASTM E92; ISO 6507-1
<b>Microhardness</b> Knoop: 100, 200, 300, 500 gf Vickers: 100, 200, 300, 500, 1000 gf	ASTM E384; F606/606M
<b>Macroetch Testing</b>	ASTM E381; ASTM A604
<b>Measurements of plating thickness by Optical Microscope</b>	ASTM B487
<b>Micro-Cleanliness Rating</b>	ASTM E45 (Method A, C, D, E); ISO 4967 (Method A and B); DIN 50602 (Method M & K); JIS G 0555
<b>Microetching Metals and Alloys</b>	ASTM E407
<b>Proof (Internal &amp; External Threads)</b>	ASTM F606/606M; SAE J429, J1199
<b>Salt Spray (Fog)</b>	ASTM B117; ISO 9227
<b>SEM/EDS</b>	ASTM B748, E766
<b>Specimen Preparation</b>	ASTM E3
<b>Steel Cleanliness by Magnetic Particle test</b>	AMS 2301, 2304; JIS G 0556
<b>Surface Roughness</b>	ASME B46.1
<b>Tensile Testing (Axial &amp; Wedge)</b>	ASTM A1058, A370, B557, E8/E8M, F606/606M; SAE J429, J995, J1199; ISO 6892-1
<b>Volume Fraction by Point Count</b>	ASTM E562; SAE AMS 2315
<b>Weld Procedure and Weld Operator Qualification</b>	AWS B4.0 (Part A-D): D1.1, D1.2, D1.5, D1.6; ASME Section IX; NAVSEA S9074-AQ-GIB-010/248



## Accredited Laboratory

A2LA has accredited

### SGS NORTH AMERICA INC.

*Melrose Park, IL*

for technical competence in the field of

## Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 April 2017).



Presented this 10<sup>th</sup> day of December 2024.

A blue ink signature of Mr. Trace McInturff, written in a cursive style.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 510.01  
Valid to December 31, 2026

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