



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

SGS North America Inc.
Operating at 1390 N. 25th Avenue
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MECHANICAL

Valid To: December 31, 2024

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

(A2LA Cert. 0510.01) 12/21/2022

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<u>Test Description:</u>	<u>Test Method(s):</u>
Hardness Rockwell: A, B, C, N, T Brinell: 187.5, 500, 750, 3000Kgf Vickers: HV 5Kgf, 10Kgf	ASTM E18; ASTM F606/606M; SAE J429; ASTM E10; ASTM E92; ISO 6507-1
Microhardness Knoop: 100, 200, 300, 500 HK Vickers: 100, 200, 300, 500, 1000 gf	ASTM E384; F606/606M
Macroetch Testing	ASTM E381; ASTM A604
Measurements of plating thickness by Optical Microscope	ASTM B487
Micro-Cleanliness Rating	ASTM E45 (Method A, C, D, E); ISO 4967 (Method A and B); DIN 50602 (Method M & K); JIS G 0555
Microetching Metals and Alloys	ASTM E407
Proof (Internal & External Threads)	ASTM F606/606M; SAE J429, J1199
Salt Spray (Fog)	ASTM B117; ISO 9227
SEM/EDS	ASTM B748, E766
Specimen Preparation	ASTM E3
Steel Cleanliness	AMS 2301, 2304; JIS G 0556
Surface Roughness	ASME B46.1
Tensile Testing (Axial & Wedge)	ASTM B557, E8/E8M, F606/606M; SAE J429, J995, J1199; ISO 6892-1
Volume Fraction by Point Count	ASTM E562; SAE AMS 2315
Weld Procedure and Weld Operator Qualification	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 21st day of December 2022.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 510.01
Valid to December 31, 2024

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