



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

SGS North America Inc.  
Operating at 1390 N. 25<sup>th</sup> Avenue  
Melrose Park, IL 60160  
Steffy Gerald Phone: 708 343 3444  
[Gerald.steffy@sgs.com](mailto:Gerald.steffy@sgs.com)

MECHANICAL

Valid To: January 31, 2019

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>ASTM</u>	<u>Other</u>
Bend	A370 Sec. 15, E290 Guided Bend, Semi- Guided Bend	AWS B4.0 (Part A)
Case Depth		SAE J423
Charpy Impact Testing (Type A)	E23	ISO 148-1, 148-2; EN 10045-1, -2; JIS Z 2202, JIS Z 2242
Coating Weight (Zn)	A90	
Decarburization Exam	E1077	SAE J121, J419
Detrimental Intermetallic Phases in Duplex Stainless Steels	A923	
Discontinuity Exam	A574, F788	SAE J122; ISO 898-1
Grain Size Exam	E112, E1181	
Graphite Microstructure	A247	
Inclusion or Second-Phase Content by Automatic Image Analysis	E1245	
Intergranular Attack in Austenitic (SS)	A262 (Practice A, C&E)	ISO 3651-2, Method A

<b><u>Test Description</u></b>	<b><u>ASTM</u></b>	<b><u>Other</u></b>
Intergranular Corrosion in Nickel Chrome Alloys	G28 (Method A)	
Jominy Hardenability	A255	SAE J406; ISO 642; CAT 1E0024
Hardness Rockwell: A, B, C, N, T Brinell: 187.5, 500, 750, 3000Kg Vickers: HV 5000g, HV 10000g	E18, F606, F606M E10 E384, E92	SAE J429  ISO 6507-1
Microhardness Knoop: 100, 500 HK Vickers: 100g, 300g, 500g, 1000g HV	E384, F606, F606M	
Macroetch Testing	E381	
Measurements by Optical Microscope Examination	B487	MSi Procedure 0008
Micro-Cleanliness Rating	E45 (Method A, C, D, E)	ISO 4967 (Method A and B); DIN 50602 (Method K & L); JIS G 0555
Microetching Metals and Alloys	E407	
Pitting and Crevice Corrosion	G48 (Method A & B)	
Proof (Internal & External Threads)	F606	SAE J429, J1199
Salt Spray (Fog)	B117	GM 4298P, W3286; ISO 9227; SAE USCAR-1
SEM/EDS	B748, E766, E1508	MSi Procedure 2000
Specimen Preparation	E3	
Steel Cleanliness		AMS 2301, 2304; JIS G 0556
Surface Roughness		ASME B46; MSi Procedure 590
Tensile Testing (Axial & Wedge)	B557, E8, F606	SAE EN J429, J995, J1199, J1216 EN 10002-1; EN 10002-2; ISO 6892-1
Volume Fraction by Point Count	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 MSI TESTING AND ENGINEERING INDUSTRIAL SERVICES DIVISION**

*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 17025:2005 *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 April 2017*).



Presented this 16<sup>th</sup> day of December 2016

A blue ink signature of the Senior Director, Accreditation Services.

Senior Director, Accreditation Services  
For the Accreditation Council  
Certificate Number 0510.01  
Valid to January 31, 2019  
Revised December 24, 2018

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