



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

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CHEMICAL

Valid To: January 31, 2019

Certificate Number: 0510.02

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>
Optical Emission Spectroscopy (OES):		
<u>Steel</u> : Al, As, B, Bi, C, Ca, Co, Cr, Cu, Mn, Mo, N, Nb, Ni, P, Pb, S, Sb, Si, Sn, Ta, Ti, V, W, Zr	E415, A751	
<u>Stainless Steel</u> : Al, B, C, Ca, Ce, Co, Cr, Cu, Fe, Mn, Mo, N, Nb, Ni, P, Pb, S, Si, Sn, Ta, Ti, V, W, Zr	E1086, A751	
<u>Aluminum</u> : Ag, Al, B, Be, Bi, Ca, Cd, Cr, Co, Cu, Fe, Mg, Mn, Na, Ni, Pb, Sb, Si, Sn, Sr, Ti, V, Zn, Zr	E1251	
<u>Titanium</u> : Al, Bi, C, Cr, Cu, Fe, H, Mn, Mo, N, Ni, O, Pb, S, Sn, V, Ti, Se, Zr	E1473	MSi Procedure 1002
<u>Copper</u> : Ag, Al, As, Be, Bi, C, Cd, Co, Cr, Cu, Fe, Mg, Mn, Ni, P, Pb, Se, Sb, Si, Sn, S, Te, Zn, Zr	E1473	MSi Procedure 1002
<u>Nickel</u> : Al, B, C, Co, Cr, Cu, Fe, Mg, Mn, Mo, N, Nb, Ni, P, Pb, S, Si, Sn, Ta, Ti, V, W, Zr	E1473	MSi Procedure 1002
<u>Cast Iron</u> : B, C, Ca, Ce, Cr, Co, Cu, Mg, Mn, Mo, N, Nb, Ni, P, Pb, Si, S, Sn, Ta, Ti, V, W, Zr	E1999, A751	
<u>High Mn Steel</u> : Al, C, Cr, Cu, Mn, Mo, N, Ni, P, S, Si	E2209, A751	

<u>Test Description</u>	<u>ASTM</u>	<u>Other</u>
Combustion/Absorption Analysis LECO – C, N, O, S	E1019, E1409, E1941	
Density of Compacted or Sintered Powder Metallurgy (PM) Products Using Archimedes Principle	B962, B963, B311	MSi Procedure 0905
Fusion Analysis – Titanium & Steel LECO – Hydrogen	E1447	MSi Procedure 1010
Graphitic Carbon – Cast Iron	E351	
Gravimetric Copper	E53	
Hexavalent Chrome		ISO 3613; GMW 3034; DX 900359
Inductively Coupled Plasma (ICP)	E1479, E2371	MSi Procedure 1006
<u>Lead Testing</u>		
Total Lead in Children’s Metal Products (Including Children’s Metal Jewelry)	E1613	
Total Lead in Non-Metal Children’s Products	E1613	
Determining Lead in Paint and Other Similar Surface Coatings*	E1613	
Preparation of Dried Paint Samples by Hotplate or Microwave Digestion for Subsequent Lead Analysis	E1645	

*Failure analysis using the test methods listed above in accordance with MSi Procedure 5000





Accredited Laboratory

A2LA has accredited

SGS MSI TESTING AND ENGINEERING INDUSTRIAL SERVICES DIVISION

Melrose Park, IL

for technical competence in the field of

Chemical 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 19th day of December 2016.

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

Senior Director, Accreditation Services
For the Accreditation Council
Certificate Number 0510.02
Valid to January 31, 2019.
Revised December 24, 2018

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