



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

BOWSER-MORNER, INC.

Dayton, OH


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).

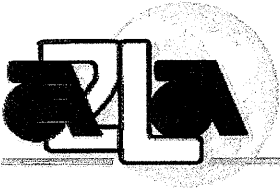
Presented this 28th day of January 2010.





President & CEO
For the Accreditation Council
Certificate Number 71.04
Valid to March 31, 2012
Revised January 20, 2012

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



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

BOWSER-MORNER, INC.
4518 Taylorsville Rd., PO Box 51
Dayton, OH 45401-0051
Mark Bingman Phone: 937 236 8805

MECHANICAL

Valid To: March 31, 2012

Certificate Number: 0071.04

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

Product and Simulated Environmental Tests:

Test Name:

Salt Spray (Fog) Testing

Copper-Accelerated Acetic Acid-Salt Spray (Fog) Testing (CASS)

Evaluating Degree of Rusting on Painted Steel Surfaces

Evaluating Degree of Blistering of Painted Surfaces

Testing Water Resistance of Coatings Using Water Immersion

Testing Water Resistance of Coatings Using Water Fog Apparatus

Evaluation of Painted or Coated Specimens Subjected to Corrosive Environments

Water Resistance of Coatings in 100% Relative Humidity

Filiform Corrosion Resistance of Organic Coatings on Metal Surfaces

Measuring Adhesion by Tape Test

Test Method:

ASTM B117; GM4298P;
RTCA/DO-160D, Sec. 14;
MIL-STD-810, Sec. 509.4;
BMI 31-001, 31-002
ASTM B368; GM4476P

ASTM D610; GM9540P

ASTM D714; GM9540P

ASTM D870; GM4466P;
GM4345M

ASTM D1735; RTCA/DO-160D
Sec 6; MIL-STD 810, Sec. 507.4;
BMI 31-014

ASTM D1654; GM9514P

ASTM D2247; GM4465P;
BMI 31-014

ASTM D2803-93

ASTM D3359; GM9502P

Product and Simulated Environmental Tests: (cont)

Abrasion Resistance of Organic Coatings by the Taber Abraser	ASTM D4060; GM9515P; BMI 31-010
Gardner Impact Resistance	ASTM D5420
Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials	ASTM 152 GM9125P; MIL-STD-810, Sec. 505.4
Accelerated Weathering - Xenon	ASTM G155
Tape Adhesion	GM9071P
Corrosion Creep-Back	GM9102P
Finish	GM4350M; ESF-M10P1-A
Dime Scrape Test	GM9506P
Thumbnail Hardness	GM9507P
Scab Corrosion Creep-Back	GM9511P
Flammability	FMVSS 302
Environmental Test Methods, Shock and Vibration	MIL STD-810, Methods 514, 516 RTCA/DO-160D Sec7 & 8
Pencil Hardness	ASTM D3363

Physical/Mechanical Testing and Metallography Tests:

<u>Test Name:</u>	<u>Test Method:</u>
Tension Testing for Gray Iron Castings	ASTM A48; BMI 36-005
Evaluating the Microstructure of Graphite in Iron Castings	ASTM A247; BMI 36-020
Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels	ASTM A262, All Methods
Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products	ASTM B557
Adhesion of Metallic Coatings	ASTM B571
Preparation of Metallographic Specimens	ASTM E3; BMI 36-007
Tension Testing of Metallic Materials	ASTM E8, E8M, A370, B381; BMI 36-005, 36-006
Brinell Hardness of Metallic Materials	ASTM E10, A370; BMI 36-002
Rockwell Hardness and Rockwell Superficial Hardness of Metallic Materials Scales: HRB, HRC, 15N, 30T	ASTM E18, A370; BMI 36-001



Physical/Mechanical Testing and Metallography Tests: (cont)

Notched Bar Impact Testing of Metallic Materials	ASTM E23, A370; BMI 36-004, 36-011
Determining the Inclusion Content of Steel	ASTM E45 Method A; SAE J422; BMI 36-010
Determining Average Grain Size	ASTM E112; AMS 2380; BMI 36-009
Macroetching Metals and Alloys	ASTM E340; BMI 36-008
Microhardness of Metals, Knoop, Vickers Microetching Metals and Alloys	ASTM E384; BMI 36-003 ASTM E407; BMI 36-008
Reflected-Light Photomicrography	ASTM E883; BMI 36-013, 36-014, 36-023
Estimating the Largest Grain Size Observed in a Metallographic Section (ALA Grain Size)	ASTM E930; AMS 2380; BMI 36-009
Estimating the Depth of Decarburization of Steel Specimens	ASTM E1077; BMI 36-018
Axial Tensile, Wedge Tensile, Proof Load	ASTM F606, 606M

