



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Midwest Testing Laboratories, INC
1072 Wheaton Street
Troy MI 48083

has been assessed by ANAB
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

TESTING

Refer to the accompanying Scope of Accreditation for information regarding the types of tests to which this accreditation applies.

AT-1503
Certificate Number


ANAB Approval

Certificate Valid: 12/05/2016-12/23/2018
Version No. 002 Issued: 12/05/2016



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 January 2009).



ANSI-ASQ National Accreditation Board

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Midwest Testing Laboratories, INC

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TESTING

Valid to: December 23, 2018

Certificate Number: AT - 1503

FIELD OF TEST	ITEMS, MATERIALS OR PRODUCTS TESTED	SPECIFIC TESTS OR PROPERTIES MEASURED	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED	*KEY EQUIPMENT OR TECHNOLOGY
Mechanical	Fall Protection Devices, Materials and Components	Dynamic Performance Static Strength Activation Force Arrest Force Arrest Distance Elongation	ANSI Z359.1 ANSI Z359.12 ANSI Z359.13 ANSI Z359.14 ANSI A10.32 CAN/CSA Z259.12 CSA Z259.2.1 CSA Z259.10-M90 CSA Z259.11 ANSI A14.3 OSHA 1926.502 (D) OSHA 1910.66 App C OSHA 1910.27 OSHA 1926.502	Certified Drop Tower Mechanical Release Mechanism Load Cell and Data Acquisition System Test Lanyards Test Dummy Test Weights Protractor / Angle Meter Winch
Mechanical	Safety Belts	Dynamic Performance Static Strength	ANSI A10.14	Certified Drop Tower Mechanical Release Mechanism Load Cell and Data Acquisition System Test Lanyards Test Dummy Test Weights Protractor / Angle Meter Winch



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Mechanical	Personal Climbing Equipment	Dynamic Performance Static Strength	ASTM F887 (all but 15.3.1, 22)	Certified Drop Tower Mechanical Release Mechanism Load Cell and Data Acquisition System Test Lanyards Test Dummy Test Weights Protractor / Angle Meter Winch
Mechanical	Metal	Ductility / Bend	Customer Specification / ASTM E190	Fixtures Tinius Olsen
Mechanical	Metal	Flaring	Customer Specification	Tinius Olsen
Mechanical	Metal	Proof Load External Internal	ASTM A370, F606, F606M, SAE J429, J1216, J995	Fixtures Tinius Olsen Dial Indicator
Mechanical	Metal	Tensile	ASTM A370, E8	Fixtures Extensometer Tinius Olsen
Mechanical	Metal	n-value	ASTM E646	Fixtures Extensometer Tinius Olsen
Mechanical	Metal	r-ratio	ASTM E517	Fixtures Extensometer Tinius Olsen
Mechanical	Metal	Axial/Wedge	ASTM A370, F606, F606M, SAE J82, J429, J1216	Fixtures Tinius Olsen
Mechanical	Webbing	Tensile	FEDSTD 191A, Test Method 4108	Fixtures Tinius Olsen
Mechanical	Metal	Hardness Rockwell (A,B,C,15N, 30N,30T)	ASTM E18, E140, SAE429	Rockwell Hardness tester
Mechanical	Metal	Hardness Brinell	ASTM E10 SAE J417	Birnell hardness tester
Mechanical	Metal	Hardness Microhardness	ASTM E384 SAE J121	Microhardness Tester

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Mechanical	Metal	Plating Adhesion	ASTM B571 GMW 14829 SAE J207	Grind saw Hack saw
Mechanical	Metal	Hydrogen Embrittlement	USCAR 5 and 7	Torque wrench Test Plates
Mechanical	Plating	STEP Test	ASTM B764, ASTM B604	Kocour
Metallographic	Metal	Case Depth / Decarburization / Depth	ASTM A574, A574M, E1077 SAE J78, J121, J121M, J419, J423, J429	Microhardness tester
Metallographic	Metal	Discontinuities Surface external threaded Surface internal threaded	ASTM A490, A574, A574M, F788, F788M, F835, F835M, F912, F912M, SAE J123, J1061 ASTM F812, F812M, SAE J122	Microscope Measuring device and software
Metallographic	Metal	Grain Size	ASTM E112, E930, E1181, SAE J418	Microscope
Metallographic	Metal	Inclusion Content	ASTM E45 (Method A, C)	Microscope
Metallographic	Metal	Macroetching	ASTM E340	Etchant
Metallographic	Metal	Microetching	ASTM E407	Etchant
Metallographic	Metal	Preparation	ASTM E3	Polishing Wheels Polishing paste
Metallographic	Metal	Fusion and Spot Weld Evaluation	Customer Specification	Etchant
Metallographic	Metal	Oxalic Intergranular Susceptibility	ASTM A262 (Practice A)	Microscope
Metallographic	Metal	White Layer (microstructure)	Customer Specification, ASTM Metals Handbook	Microscope

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Metallographic	Metal	Failure Analysis	ASTM Metals Handbook	Microscope
Metallographic	Metal	Coating Weight	ASTM A90	Balance Chemicals Ruler
Metallographic	Metal	Plating Thickness	ASTM B487, B764, B504, B556, GMW14829, ISO 1463, 2177, ASTM B604	Microscope
Mechanical Environmental	Coatings	Dry Film Thickness	ASTM B499, D1186, D7091-05, ISO2178, 2808	Coating Thickness Gauge
Mechanical Environmental	Coatings	Chip Resistance	ASTM D310, FLTM BI 157-05; GMW14700 (METHOD B/C), SAE J400	Gravelometer
Mechanical Environmental	Coatings	Cure (Solvent Rub)	GMW15891	M.E.K or specified solvent Cheese cloth
Mechanical Environmental	Coatings	Corrosion Resistance (Creepback)	GM 4350M GMW15282	Chambers, scribe tool
Mechanical Environmental	Coatings	Humidity	ASTM D2247, D1735 GMW14729 DIN EN ISO 6270-2	Chambers
Mechanical Environmental	Coatings	NES Methods of Compound Corrosion	NES M0140 NES M0007	Chambers
Mechanical Environmental	Coatings	Salt Spray	ASTM B117, GMW3286, ISO 9227, FMVSS209, FORD BI 103-01, NISSAN M0140	Chambers
Mechanical Environmental	Coatings	CASS	ASTM B368,GMW14458, ASTM B604	Chambers

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Mechanical Environmental	Coatings	Micro Porosity (Active Sites)	ASTM B456 ASTM B604	Chambers, microscope
Mechanical Environmental	Coatings	Water Immersion / Adhesion	FLTM BI 104-01	Aquariums, pumps, bubblers, thermometers, heaters
Mechanical Environmental	Coatings	Corrosion (including Cyclic)	ASTM B456, D2933-84, G85(A5), FLTM BI 123-03; GMW14124 GMW15288 GMW14668, GMW14872, HES D2021***, NES M0007(automated), SAE J1563, J2334, Ford DVM-0042-SM	Chambers
Mechanical Environmental	Coatings	Temperature Cycle	GMW14668 DVM-0008-RG	Chambers
Mechanical Environmental	Coatings	Temperature Humidity	Chrysler – LP-463PB-22-01	Chambers
Mechanical Environmental	Coatings	Russian Mud	ASTM B995-15	Chambers
Mechanical Environmental	Coatings	Corrodokote	ASTM B380; FORD BQ- 004-01	Chambers, scribe tool
Mechanical Environmental	Coatings	Filiform Corrosion	ASTM D2803, D3322, FLTM BI 124-01	Chambers, ruler
Mechanical Environmental	Coatings	Pencil Hardness	ASTM D3363 FLTM BI 151-01	Hardness pencils
Mechanical Environmental	Coatings	Car Wash Simulation Test	GM 9600P	Car wash brush tester
Mechanical Environmental	Coatings	SWAAT (Sea Water Acetic Acid Test)	ASTM G85*** GMW14193*** PNAR 00682	Chambers

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Mechanical Environmental	Coatings	Mar Resistance	ASTM D2197, D5178 GMW3097	Chambers
Mechanical Environmental	Coatings	Flammability	FMVSS 302 GM 9070P	Flammability chamber
Mechanical Environmental	Coatings	Tape Adhesion	FLTM BI 106-01 GMW14829 ASTM D3359	Tape, crosscutter, knife, brush
Mechanical Environmental	Coatings	Peel Strength	ASTM B533, ASTM B604	Motorized UTS
Mechanical Environmental	Coatings	Mandrel Bend	GM 9503P	Mandrels
Mechanical Environmental	Coatings	Gasoline Drip/Puddle	GMW14333	Gas, Chambers
Mechanical Environmental	Coatings	Oil Resistance	GMW14671	Oil, Chambers
Mechanical Environmental	Metal	Spot Test	GMW15284	Alconox, Solution
Mechanical Environmental	Metal	Dye Penetrant	ASTM E165	Dye
Mechanical Environmental	Metal	Surface Roughness	JIS B0601-1982, B0601- 1994, DIN 4768/4768-1, DIN/ISO 4287, ISO4288, ANSI B46.1	Profilometer
Chemical	Metals	Optical Emission Spectroscopy (C, Mn, P, S, Si, Cr, Ni, Mo, V)	ASTM E415	ARL

Notes:

1. * = As Applicable
2. **= Including customer and industry specifications directly related to the test technologies.
3. ***= Portions of test methods only related to test technologies listed
4. Also using customer supplied methods utilizing any combination of test equipment parameters listed above.
5. Corrosion Testing: Salt Spray, Salt Fog, Humidity, CASS and cyclic corrosion
6. Temperature Testing: -70 °C to 1 200 °C
7. Humidity Testing: (20 to 100) %RH condensed and non-condensed
8. Compression Testing: 100 lb to 1000,000 lb
9. Tensile Testing: 100 lb to 100,000 lb
10. This scope is formatted as part of a single document including the Certificate of Accreditation No. AT-1503



Vice President