



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TRIALON CORPORATION
Michigan Testing and Validation Center
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MECHANICAL

Valid To: May 31, 2020

Certificate Number: 1123.03

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests using the parameters and methods listed below on the following products and materials: abrasives; automotive components; coatings; glass and glass products; textiles; instrument clusters; and circuit boards.

Capabilities*:

Altitude: to 100,000 ft.

Altitude Temperature: -70°C to 170°C to 60,000 ft.

Force: Up to 30 kN

Temperature: (-50 to 150) °C

Temperature and Humidity: (20 to 95) %RH

Temperature Cycling: (-50 to 150) °C

Thermal Shock: (-50 to 150) °C

Vibration

Random:

Force Ratings: 15,000 force-lbs

Frequency Range: (4 to 3,000) Hz

Shock:

Force: 40,000 force-lbs

Waveforms: half-sine, saw tooth, trapezoidal

Maximum Levels: Up to 100 g's (electrodynamic)

Maximum Levels: Up to 500 g's (shock amplifier-pneumatic)

Tests*

Test Methods

Force

Connector Tests

GMW 3172

Terminal Retention Force

GMW 3172

Connector Mating Force

GMW 3172

Connector Retention Force

GMW 3172

Connector Disengagement Force

GMW 3172

Crush Test

GMW 3172

Tests*

Environmental Simulation

Accelerated Weathering Exposure (Xenon)
Temp Exposure (*with and without humidity*)
Altitude

Altitude Temperature

Dust Exposure
Fluid Compatibility
Humidity
Humidity Heat, Cyclic (HHC)
Humidity Heat, Constant (HHCC)
Immersion/Water
Low Temperature Testing
High & Low Temperature Durability
Moisture Susceptibility (Frost)
Dew Test
Salt Fog/Mist
Thermal Shock
Thermal Shock & Water Splash
Power Temperature Cycle
Thermal Shock in Air (TS)
Tri-Temperature/Parametric

Vibration

Drop
Free Fall

Temperature/Humidity

High Temperature
Low Temperature
Temperature Shock
Humidity
Salt Fog
Immersion

Salt Fog
Humidity
Immersion
Moisture Resistance
Thermal Shock (Air to Air)
Life Testing
Resistance to Solvents

Immersion
Moisture Resistance
Steady State Humidity
Salt Atmosphere
Thermal Cycle
Thermal Shock (Air to Air)
Dew Testing
Burn In

Test Methods

SAE J1885; SAE J2412

MIL-STD-810G 500.5 Procedure I, II only, IEC 60068-2-13, SAE J1455 4.9

MIL-STD-810G 500.5 Procedure I, II only, IEC 60068-2-13, SAE J1455 4.9

GMW 3172

GMW 3172 (Dec 2001)

GMW 3172

GMW 3172

GMW 3172

IEC 60529; DIN 40050-9e; ISO 20653

GMW 3172

GMW 3172

GMW 3172

GMW 3172

GMW 3286; GMW 3172; ASTM B117

GMW 3172

GMW 3172

GMW 3172

GMW 3172

GMW 3172

GMW 3172

GMW 3172

MIL-STD-810, Rev C - G, Method 501

MIL-STD-810, Rev C - G, Method 502

MIL-STD-810, Rev C - G, Method 503

MIL-STD-810, Rev C - G, Method 507

MIL-STD-810, Rev C - G, Method 509

MIL-STD-810, Rev C - G, Method 512

MIL-STD-202, Rev G, Method 101

MIL-STD-202, Rev G, Method 103

MIL-STD-202, Rev G, Method 104

MIL-STD-202, Rev G, Method 106

MIL-STD-202, Rev G, Method 107

MIL-STD-202, Rev G, Method 108

MIL-STD-202, Rev G, Method 215

MIL-STD-883, Rev G - H, Method 1002, a - c

MIL-STD-883, Rev G - H, Method 1004.7

MIL-STD-883, Rev G - H, Method 1005.9

MIL-STD-883, Rev G - H, Method 1009.8

MIL-STD-883, Rev G - H, Method 1010.8

MIL-STD-883, Rev G - H, Method 1011

MIL-STD-883, Rev G - H, Method 1013

MIL-STD-883, Rev G - H, Method 1015

Tests***Environmental Simulation**

Connector Lead/Lock Strength
 Mechanical Wearout
 Controls Durability
 Low Temperature Exposure
 Low Temperature Operation
 High Temperature Exposure
 High Temperature Operation
 Power Temperature Cycle
 Thermal Shock in Air (TS)
 Humidity-Temperature Cycle
 Water/Fluid Ingress
 Dust
 Chemical Resistance
 Salt Mist
 High Temp/Humidity Endurance
 High Temperature Endurance

Ford Test Methods

Ford CETP:00.00-E-412
 Ford CETP:00.00-E-412
 Ford CETP:00.00-E-412
 Ford CETP:00.00-E-412
 Ford CETP:00.00-E-412
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 Ford CETP:00.00-E-412

Vibration

Mechanical Shock/Drop
 Powered Vibration

Ford CETP:00.00-E-412
 Ford CETP:00.00-E-412

Tests***Environmental Simulation**

Environmental Specification
 Shipping/Storage Temp Exposure
 Low Temp Operating Endurance
 High Temp Operating Endurance
 Powered Temp Cycling Endurance
 Thermal Shock
 Thermal Humidity Cycle
 High Temp/Humidity Endurance
 Solar Radiation Soak
 Solids/Fluids
 Dust
 Water Intrusion
 High Pressure Steam Jet
 Salt Water Immersion
 Chemical Resistance
 Salt Fog
 Chemical Exposure (cabin)
 Chemical Exposure (exterior)
 Mechanical Stresses
 Vibration
 Mechanical Shock
 Mechanical Shock Endurance
 Package Drop

Chrysler Test Methods

CS-11982
 CS-11982
 CS-11982
 CS-11982
 CS-11982
 CS-11982
 CS-11982
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**Also using customer-specified methods directly related to the types of tests and parameters listed above.*



Accredited Laboratory

A2LA has accredited

TRIALON CORPORATION

Burton, MI

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 17th day of July 2018.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 1123.03
Valid to May 31, 2020

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