



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

TRIALON CORPORATION – MTEC  
ENVIRONMENTAL LABORATORY  
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MECHANICAL

Valid To: May 31, 2012

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:

**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

*Environmental Simulation*

Accelerated Weathering Exposure (Xenon) Temp Exposure (-40 to 105) °C (with and without humidity)	SAE J1885; SAE J2412
Dust Exposure	GMW 3172
Fluid Compatibility	GMW 3172 Dec 2001
Humidity (20 to 95) %RH	GMW 3172;
Humidity	GMW 3172;
Humidity Heat, Cyclic (HHC)	GMW 3172
Humidity Heat, Constant (HHCC)	GMW 3172
Immersion	IEC 60529; DIN 40050-9e; ISO 20653

**Tests**

*Environmental Simulation (continued)*

Low Temperature Testing  
High & Low Temperature Durability  
Moisture Susceptibility (Frost)  
Dew Test  
Salt Fog/Mist  
Thermal Shock (-40 to 105) °C  
Thermal Shock & Water Splash  
Power Temperature Cycle  
Thermal Shock in Air (TS)  
Tri-Temperature/Parametric

**Test Methods**

GMW 3172;  
GMW 3172;  
GMW 3172  
GMW 3172;  
GM 4298; GMW 3172; ASTM B117;  
GMW 3172  
GMW 3172  
GMW 3172  
GMW 3172  
GMW 3172

*Vibration*

Drop  
Free Fall

GMW 3172  
GMW 3172

**Tests**

High Temperature  
Low Temperature  
Temperature Shock  
Humidity  
Salt Fog  
Immersion

**Test Methods**

MIL STD 810, Method 501  
MIL STD 810, Method 502  
MIL STD 810, Method 503  
MIL STD 810, Method 507  
MIL STD 810, Method 509  
MIL STD 810, Method 512

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

MIL STD 202, Method 101  
MIL STD 202, Method 103  
MIL STD 202, Method 104  
MIL STD 202, Method 106  
MIL STD 202, Method 107  
MIL STD 202, Method 108  
MIL STD 202, Method 215

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

MIL STD 883, Method 1002, a - c  
MIL STD 883, Method 1004.7  
MIL STD 883, Method 1005.9  
MIL STD 883, Method 1009.8  
MIL STD 883, Method 1010.8  
MIL STD 883, Method 1011  
MIL STD 883, Method 1013  
MIL STD 883, 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  
85/85 High Temp/Humidity Endurance  
High Temperature Endurance

### Vibration

Mechanical Shock/Drop  
Powered Vibration

## Tests

### Environmental Simulation

Climatic Stresses  
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  
Handling Drop

### On the following products and materials:

Abrasives; Automotive Components; Coatings; Glass and Glass Products; Textiles; Instrument Clusters; and Circuit Boards.

## Ford Test Methods

Ford 00.00EA-D11-6, Section 4.6.4  
Ford 00.00EA-D11-6, Section 4.8.3  
Ford 00.00EA-D11-6, Section 4.8.2  
Ford 00.00EA-D11-6, Section 4.5.1, Table 3.2.1.a/b  
Ford 00.00EA-D11-6, Section 4.5.2, Table 3.2.1.a/b  
Ford 00.00EA-D11-6, Section 4.5.3, Table 3.2.1.a/b  
Ford 00.00EA-D11-6, Section 4.5.4, Table 3.2.1.a/b  
Ford 00.00EA-D11-6, Section 4.5.5, Table 3.2.1.a/b  
Ford 00.00EA-D11-6, Section 4.5.6, Table 3.2.1.a/b  
Ford 00.00EA-D11-6, Section 4.5.7, Table 3.2.1.a/b  
Ford 00.00EA-D11-6, Section 4.5.8, Table 4(a)  
Ford 00.00EA-D11-6, Section 4.5.9, Table 3.2.2  
Ford 00.00EA-D11-6, Section 4.5.10, Table 3.2.3  
Ford 00.00EA-D11-6, Section 4.7.2  
Ford 00.00EA-D11-6, Section 4.7.1  
Ford 00.00EA-D11-6, Section 4.8.4  
Ford 00.00EA-D11-6, Section 4.8.1

Ford 00.00EA-D11-6, Section 4.6.3  
Ford 00.00EA-D11-6, Section 4.6.1

## DCX Test Methods

DC-10611, Section 6.1.1  
DC-10611, Section 6.1.2  
DC-10611, Section 6.1.3  
DC-10611, Section 6.1.4  
DC-10611, Section 6.1.5  
DC-10611, Section 6.1.7  
DC-10611, Section 6.1.8  
DC-10611, Section 6.1.9  
  
DC-10611, Section 6.3.1  
DC-10611, Section 6.3.2  
DC-10611, Section 6.3.3  
DC-10611, Section 6.3.4  
  
DC-10611, Section 6.4.2  
DC-10611, Section 6.4.3  
DC-10611, Section 6.4.4  
  
DC-10611, Section 6.2.1  
DC-10611, Section 6.2.2  
DC-10611, Section 6.2.3  
DC-10611, Section 6.2.4  
DC-10611, Section 6.2.5



The American Association for Laboratory Accreditation

World Class Accreditation

# 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 8 January 2009*).

Presented this 23rd day of August 2010.



  
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President & CEO

For the Accreditation Council

Certificate Number 1123.03

Valid to May 31, 2012

Revised June 2, 2011

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