



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY BURTON  
1477 Walli Strasse Drive  
Burton, MI 48509  
Brad Soule Email: bsoule@trialon.com Phone: 810-341-7992  
Gregory Stetkiw Email: gsetkiw@trialon.com Phone: 810-341-7980  
Website: http://www.trialon.com

MECHANICAL

Valid To: May 31, 2024

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 or types of products:**

Automotive, Aerospace, Military and Electrical/Electronic/Mechanical components and assemblies.

Test Type	Test Parameters	Test Method/Standard
High/Low/Cyclic Temperature without Humidity <sup>1</sup>	(-65 to 175) °C	Including but not limited to the following: FCA CS.00056 sections 5.3.1, 5.3.2, 5.3.3, 5.3.4 Ford CEPT:00:00-E-412 sections 5.1, 5.2, 5.3, 5.4, 5.5, 5.17 GMW 3172 <sup>2</sup> sections 9.4.1, 9.4.3, GMW 3191 section 4.4.1 USCAR-2 section 5.6.3 MIL-STD-810(G,H) methods 501,502 MIL-STD-202(G,H) method 108 JDQ 53.3 ISO 16750-4 Hyundia/KIA ES95400-10 IEC 60068-2-14



<p>Temperature Capability with Humidity<sup>1</sup></p>	<p>(-65 to 175) °C (20 to 95) %RH</p>	<p>Including but not limited to the following:  FCA CS.00056 sections 5.3.6, 5.3.7  Ford CEPT:00:00-E-412 sections 5.8, 5.20  GMW 3172<sup>2</sup> sections 9.4.5, 9.4.6  GMW 3191 section 4.4.3, 4.4.4  USCAR-2 section 5.6.2  USCAR-21 section 4.5.4  MIL-STD-810(G,H) method 507  MIL-STD-202(G,H) methods 103, 106  JDQ 53.3  Hyundia/KIA ES95400-10  ISO 16750-4  IEC 60068-2-38  IEC 60068-2-78</p>
<p>Thermal Shock<sup>1</sup></p>	<p>(-70 to 200) °C Air to Air</p>	<p>Including but not limited to the following:  FCA CS.00056 section 5.3.5  Ford CEPT:00:00-E-412 sections 5.6, 5.7  GMW 3172<sup>2</sup> section 9.4.2  GMW 3191 section 4.4.2  USCAR-2 section 5.6.1  USCAR-21 section 4.5.5  MIL-STD-810(G,H) method 503  MIL-STD-202(G,H) method 107  JDQ 53.3  ISO 16750-4</p>
<p>Altitude with Temperature<sup>1</sup></p>	<p>To 100,000 ft. (-50 °C to 150 °C to 60,000 ft.)</p>	<p>Including but not limited to the following:  MIL-STD-810(G,H) 500.5 Procedure I, II only  IEC 60068-2-13  SAE J1455 4.9</p>



		MIL-STD-202(G,H) method 509 ISO 16750-4 IEC 60068-2-11
Cyclic Corrosion <sup>1</sup>		Including but not limited to the following: GMW14872 SAE J 2334 GMW 3172 <sup>2</sup> section 9.4.8 ISO 9227 GMW3286 IEC 60068-2-52

<sup>1</sup>Also using customer specified methods directly related to the types of tests and parameters listed.

<sup>2</sup> This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn including but not limited to GMW 3172 (2008, 2010, 2012, 2015,2018)

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