



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY KOKOMO

1815 Touby Pike

Kokomo, IN 46901

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MECHANICAL

Valid To: July 31, 2024

Certificate Number: 1123.05

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following Mechanical tests using the parameters and methods listed below:

Test Type	Test Parameters	Test Method/Standard <sup>3</sup>
High/Low/Cyclic Temperature without Humidity <sup>1</sup>	(-50 to 150) °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; Hyundai/KIA ES95400-10; IEC 60068-2-14
Temperature Capability with Humidity <sup>1</sup>	(-50 to 150) °C (30 to 95) %RH	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 sections 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; Hyundai/KIA ES95400-10; ISO 16750-4; IEC 60068-2-38; IEC 60068-2-78

Test Type	Test Parameters	Test Method/Standard <sup>3</sup>
Thermal Shock <sup>1</sup>	(-50 to 190) °C Air to Air	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
Force Testing Tension and Compression <sup>1</sup>	Up to 2 kN	Including but not limited to the following: FCA CS.00056 section 5.4.2; Ford CEPT:00:00-E-412; GMW 3172 <sup>2</sup> section 9.3.7; GMW 3191; USCAR-2; USCAR-21
Water Spray <sup>1</sup>		Including but not limited to the following: DIN 40050-9e; FCA CS.00056 section 5.5.3; Ford CEPT:00:00-E-412 section 5.9; GMW 3172 <sup>2</sup> section 9.5.2; GMW 3191 section 4.4.1.1; USCAR-2 section 5.6.7.4; IEC 60529; ISO 16750-4; JIS D 203
Chemical Exposure/Resistance <sup>1</sup>		FCS CS.00056; Ford CETP 00.00-E-412; ISO 16750-5; GMW 14334; GMW 16449
Water Immersion <sup>1</sup>		Including but not limited to the following: DIN 40050-9e; FCA CS.00056 section 5.5.3; Ford CEPT:00:00-E-412 section 5.9; GMW 3172 <sup>2</sup> section 9.5.3; GMW 3191 section 4.4.9; USCAR-2 section 5.6.5; IEC 60529; ISO 16750-4; JIS D 203
Dust Intrusion <sup>1</sup>		Including but not limited to the following: DIN 40050-9e; FCA CS.00056 section 5.5.1; Ford CEPT:00:00-E-412 section 5.10.1; GMW 3172 <sup>2</sup> section 9.5.1; IEC 60529

Test Type	Test Parameters	Test Method/Standard <sup>3</sup>
		SAE J1455 2017, Alternate Method only
Salt Fog / Spray <sup>1</sup>		Including but not limited to the following: ASTM B117; FCA CS.00056 section 5.5.5; Ford CEPT:00:00-E-412 section 5.15; GMW 3172 <sup>2</sup> section 9.4.7; GMW 3191 section 4.4.7; SAE J1455; MIL-STD-202(G,H) method 101; MIL-STD-202(G,H) method 509; ISO 16750-4
Cyclic Corrosion <sup>1</sup>		Including but not limited to the following: GMW 14872; SAE J 2334; GMW 3172 <sup>2</sup> section 9.4.8; ISO 9227; GMW 3286; IEC 60068-2-52
Free Fall, Handling Drop <sup>1</sup>		GMW 3172; USCAR-2 ISO 16750-3 IEC 60068-2-32, Procedure 1 CS00056 section 5.4.6
Flammability <sup>1</sup>		FMVSS 571.302
Resistance to Crocking <sup>1</sup>		SAE J861
Tape Adhesion <sup>1</sup>		GM 9071P <sup>2</sup>
Knife Crosshatch Adhesion <sup>1</sup>		GM 9502P <sup>2</sup>
Odor <sup>1</sup>		SAE J1351

**On the following products or types of products:**

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

<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)

<sup>3</sup> When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA R101 - *General Requirements-Accreditation of ISO-IEC 17025 Laboratories*.



# Accredited Laboratory

A2LA has accredited

## ELEMENT MATERIALS TECHNOLOGY KOKOMO

*Kokomo, IN*

for technical competence in the field of

### Mechanical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *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 11<sup>th</sup> day of April 2022.

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

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 1123.05  
Valid to July 31, 2024  
Revised May 21, 2024

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