



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY KOKOMO
1815 Touby Pike
Kokomo, IN 46901
Gregory Stetkiw Email: gsetkiw@trialon.com; Phone: 810-341-7980
Website: <http://www.trialon.com>

ELECTRICAL

Valid To: May 31, 2024

Certificate Number: 1123.06

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following electronics testing:

Test Type	Test Parameters
Voltage	
AC – Measure ¹	10 μ V to 1 kV, 1 Hz to 2 MHz
AC – Generate ¹	1 mV to 10 V, 1 Hz to 1.3 MHz
DC – Measure ¹	1 μ V to 1000 V
DC – Generate ¹	1 μ V to 3,000 V
Current	
AC/DC Current Measure ¹	10 μ A to 600 A
DC – Generate ¹	10 μ A to 600 A
Resistance Measure	
Measure ¹	100 μ ohms to 1.6×10^9 ohms
Generate ¹	100 μ ohms to 1.6×10^{10} Ω
Dielectric Testing	
AC ¹	(100 to 4,000) V
DC ¹	(100 to 1,100) V
Frequency	
Measure ¹	1 Hz to 200 MHz
Generate ¹	1 Hz to 80 MHz
Capacitance¹	100 pF to 10 μ F
Resistivity¹	$1 \times 10^6 \Omega$ to $1 \times 10^{10} \Omega$

<p><u>Electrical Tests Based on GMW 3172:</u></p> <ul style="list-style-type: none"> - Jump Start - Reverse Polarity - Over Voltage - State Change Waveform Characterization - Ground Path Inductance Sensitivity - Parasitic Current - Power Supply Interruptions - Battery Voltage Dropout - Sinusoidal Superimposed Voltage - Pulsed Superimposed Voltage - Intermittent Short Circuit to Battery/Ground - Continuous Short Circuit to Battery/Ground - Multiple Power and Multiple Ground Short Circuit Including Pass Through - Open Circuit Single Line - Open Circuit Multiple Lines - Ground Offset - Power Offset - Overload – All Circuits - Overload – Fuse Protected Circuits - Insulation Resistance - Crank Pulse Capability and Durability - Switched Battery Line - Fretting Corrosion Degradation 	<p>GMW 3172²</p>
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¹Also using customer specified methods directly related to the types of tests and parameters listed.

²This laboratory’s scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered “historical” and not that the laboratory’s accreditation for the method has been withdrawn including but not limited to GMW 3172 (2008, 2010, 2012, 2015, 2018)²

<u>Test Name</u>	<u>Test Method</u>
Dielectric Withstanding Voltage	MIL-STD-202G, Method 301
Insulation Resistance	MIL-STD-202G, Method 302
DC Resistance	MIL-STD-202G, Method 303
Resistance Temperature Characteristic	MIL-STD-202G, Method 304

<u>Electrical Tests Based on USCAR-2:</u>	
Dry Circuit Resistance`	USCAR-2
Voltage Drop	USCAR-2
Insulation Resistance	USCAR-2

On the following types of materials or products: Consumer based, Automotive Components; Electrical Devices; Circuit Boards; and Electrical Components





Accredited Laboratory

A2LA has accredited

ELEMENT MATERIALS TECHNOLOGY KOKOMO

Kokomo, IN

for technical competence in the field of

Electrical 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 11th 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 1123.06
Valid to May 31, 2024
Revised September 22, 2023

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