

#### SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

# ELEMENT MATERIALS TECHNOLOGY ROCKFORD 3761 South Central Avenue

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#### **MECHANICAL**

Valid to: February 28, 2026 Certificate Number: 214.54

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on <u>industrial drives</u>, <u>tractor components</u>, <u>automotive system and subsystems</u>, <u>consumer electronics</u>, <u>and electrical power/distribution equipment</u>:

Test Technology/Description:	<b>Test Method(s):</b>
Fluid/Solvent/Chemical Resistance	RTCA/DO-160, Section 11; MIL-STD-202, Method 215; MIL-STD-810, Method 504
Temperature/Humidity Temperature: (20-150) °C RH: (10-95) % RH Temperature at 95 °C: 95% RH	RTCA/DO-160, Section 6; MIL-STD-810, Method 507; MIL-STD-202, Method 103
<b>Temperature/Thermal Cycle/Thermal Shock</b> Temperature and Thermal Cycle: (-50 to 150) °C Thermal Shock: (-55 to 150) °C	RTCA/DO-160, Sections 4 & 5; MIL-STD-810, Method 520; MIL-STD-810, Method 501; MIL-STD-810, Method 502; MIL-STD-810, Method 503
Altitude/Decompression (Up to 70,000 feet)	RTCA/DO-160, Section 4; MIL-STD-810, Method 520; MIL-STD-810, Method 505; MIL-STD-202, Method 105
Icing Test	RTCA/DO-160, Section 24; MIL-STD-810, Method 521

(A2LA Cert. No. 214.54) Revised 07/02/2024

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#### **Test Technology/Description:**

Vibration / Shock <sup>1</sup> (5 to 2500) Hz 2-inch Peak to Peak Displacement 25,000 pounds Force Up to 1500 g Shock Up 18 milliseconds Duration Combined Environment (-40 to 150) °C

Acceleration

(Centrifuge up to 50g acceleration)

Highly Accelerated Life Test (HALT) – Highly Accelerated Stress Screening (HASS)

Temperature (-100-200) °C

Temperature Ramp Rate: 60°C/min

Vibration: 50 G's 5-10,000 Hz

Salt Fog

Dripping Rain

#### **Test Method(s):**

RTCA/DO-160, Sections 7 & 8; MIL-STD-810, Method 520; MIL-STD-202, Method 201; MIL-STD-202, Method 202; MIL-STD-202, Method 204; MIL-STD-202, Method 213; MIL-STD-202, Method 214

MIL-STD-202, Method 212; MIL-STD-810, Method 513

Qualmark HALT Guidelines 933-0336; GMW3172;

IEC 60068-2-14; IPC9592A

ASTM B117;

RTCA/DO-160 Section 14; MIL-STD-810, Method 509; MIL-STD-202, Method 10

MIL-STD-810H Method 506.6 Procedure III; RTCA/DO-160 Section 10

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<sup>&</sup>lt;sup>1</sup> Also using customer specifications based on the above standards and within the listed parameters.



## **Accredited Laboratory**

A2LA has accredited

### **ELEMENT MATERIALS TECHNOLOGY ROCKFORD**

Rockford, IL

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 19th day of March 2024.

Mr. Trace McInturff, Vice President, Accreditation Services

For the Accreditation Council Certificate Number 214.54

Valid to February 28, 2026