



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY ROCKFORD
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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 industrial drives, tractor components, automotive system and subsystems, consumer electronics, and electrical power/distribution equipment:

Test Technology/Description:

Test Method(s):

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

Temperature/Thermal Cycle/Thermal Shock

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

Test Technology/Description:

Vibration / Shock¹

(5 to 2500) Hz
2-inch Peak to Peak Displacement
25,000 pounds Force
Up to 1500 g Shock
Up to 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

¹ 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.

A blue ink signature of Mr. Trace McInturff, Vice President of Accreditation Services.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 214.54
Valid to February 28, 2026

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