



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY – MELBOURNE
7780 Technology Drive
Melbourne, FL 32904
Sandra Frank 513 571 1176 Email: sandra.frank@element.com

MECHANICAL

Valid To: February 28, 2025

Certificate Number:7039.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory for the following test on the following types of products Aircraft components, automotive components, gaskets, seals and packings, piping and containers, pipes, hoses, valves and fittings, rubber and rubber products, tools, windows & doors, wiring harnesses, subassemblies.

For the following types of industries Aircraft, Aerospace, Automotive, Medical, Defense and Electronics industries.

Test Description:

Tests Method(s)¹:

Vibration^{2,3}



Test Description:

Test Method(s) 1:

Acceleration^{2,3}

MIL -STD-202, Method 212
(Test Conditions A and C only)
MIL -STD-810, Method 513;
MIL -E-5272, Rev. C, 22 Jan 71, Para 4.16

Salt Spray^{2,3}

ASTM B117; ASTM D1735 ASTM D2247;
DIN50021-SS; IEC 60945 Section 8.12;
MIL -STD-202, Method 101;
MIL -STD-810, Method 509;
RTCA/DO-160, Section 14

Sand³

MIL -STD-810, Method 510;
MIL -STD-202 Method 110A;
RTCA/DO-160, Section 12

Dust^{2,3}

IEC 60529, Section 13;
MIL -STD-810, Method 510;
MIL -STD-202 Method 110A;
RTCA/DO-160, Section 12

Settling Dust

IEC 60529, Section 13

Humidity (Temp/Humidity)^{2,3}

Bellcore GR63 (5.1.1.3);
MIL -STD-202 Methods 103, 105.1, and 106;
MIL -STD-810, Method 507;
RTCA/DO-160, Section 6;
DIN 50017;
IEC 60945, Section 8.3

Moisture Resistance

MIL -STD-202, Method 106

High/Low Temperature^{2,3}

MIL -STD-810, Methods 501, 502, 520;
MIL -STD-202, Method 108A;
IEC 60945, Sections 8.2, 8.4;
RTCA/DO160, Sections 4.5.1, 4.5.2, 4.5.3, 4.5.4,
4.55, 5, 24 (Category A & C)

Thermal Shock^{2,3}

RTCA/DO160, Section 6;
IEC 60945, Section 8.5;
MIL -STD-202 Method 107G;
MIL -STD-810, Method 503

Altitude^{2,3}
Up to 70,000 ft

MIL -STD-810, Method 500;
RTCA/DO160 Sections 4.6.1, 4.6.3

Leakage (Immersion)^{2,3}

MIL -STD-810, Method 512;
IEC 60945, Section 8.9

Fluid Susceptibility^{2,3}

MIL -STD-810, Method 504
RTCA/DO-160, Section 11



Accredited 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 7th day of February 2023.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7039.02
Valid to February 28, 2025

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

Scope of Accreditation.