



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELEMENT MATERIALS TECHNOLOGY PORTLAND

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MECHANICAL

Valid To: January 31, 2022

Certificate Number: 2502.01

In recognition of the successful completion of the A2LA evaluation process accreditation is granted to this laboratory to perform the following types of tests on aluminum components, automotive components, machine components, coatings, packaging and containers, electronics, fasteners, and consumer goods:

Test Description/Parameters	Test Method
Package Drop	A TM D4169
Impact	A TM D4169
MIL-STD-883C	MIL- TD 810 E, F, , H Method 516; MIL- TD 202
Shock	MIL- TD 883 , H Method 2002; 3 Impact DD 1344 A Method 2004; MIL- TD 1344 A Method 2004; T A T A DO-160 D, E, F, sec. 7.0; T A DO-227 6/23/1995 sec. 2.3.2;
Vibration Shock	JE D22 B104 conditions A, B, and D; AE J1455 sec. 4.9;
Vibration Sine	IE 68 Par. 2 Ea, Eb; AE J1211;
Force up to 15,000 lbs	N T/ /A .10/11/ ev. 3 Para. 38.3.4 . 1 6 D p i D i u . M. h .
Period (1 to 40) ms	

Test Description/Parameters

Test Method<sup>1</sup>

Temperature/Ha



<u>Test Description/Parameters</u>	<u>Test Method<sup>1</sup></u>
rain, wind and rain, Drip	MIL- TD-810 E, F, , H Method 506
Dust Testing	IE 60529 ec. IP5X, IP6X
Waterproofness	T A DO-160 D, E, F, ec. 10.0; MIL- TD-810 E, F, , H Method 512; AE J1211; NEMA 250 ec. 5.7; IE 60529 ec. IP X1, IP X2, IP X3, IP X4, IP X5, IP X6, IP X7, IP X8
Iceing/Freezing rain	MIL- TD-810 E, F, , H Method 521; T A DO-160 D, E, F, ec. 24; NEMA 250 ec. 5.6
UV Fluorescent Light Exposure	A TM 154; I O 4892-3; AE J2020
Xenon Weathering Test	MIL- TD-810 E, F, , H Method 505; I O 4892-2; AE J1885
Protection Against Cond Foreign Objects	IE 60529 ec. IP 1X, IP 2X, IP 3X, IP 4X, IP 5X, IP 6X
Fluid Susceptibility	T A DO-160 D, E, F, ec. 11; MIL- TD-810 E, F, , H Method 504
Steam Clean/Pressure Wash	AE J1455 ec. 4.5; DIN 40 050 Par 9 ec. IP X9K
HAST	JE D22-A110-B; JE D22-A118
HALT	Qualmark guideline 9.0

<sup>1</sup> When the date, edition, or version of a standard is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version or a period of one year from the date of publication of the standard measurement method, per paragraph 1.0 of A2LA R101 General Requirements for Accreditation of ISO/IEC 17025 Laboratories.

<sup>2</sup> Also using customer-specified methods directly related to the types of tests and parameters listed above.

