



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

CKC LABORATORIES, INC.
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MECHANICAL

Valid to: March 31, 2021

Certificate Number: 0803.09

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

Test Description/ Parameters ¹	Methods
Corrosion Testing	ASTM G85-S
Salt Fog/Salt Spray	ASTM B117; DIN50021-S; IEC 60945 Ed 4, Section 8.12; RTCA/DO-160 Section 14 (Category S and T); MIL-STD 202 Method 101E; MIL-STD 810 Method 509
Dust	IEC 60529 Section 13; MIL-STD 202 Method 110A; MIL-STD 810 Method 510, Procedure I and II; RTCA/DO-160 Section 12.4 (Category D and S); JDQ 53.3
High and Low Temperature: (-77 to 177) °C	IEC 60945/Ed4 Sections 8.2, 8.4; MIL-STD-202 Method 108A; MIL-STD-810 Methods 501, 502, 521; RTCA/DO160 Sections 4.5.1, 4.5.2, 4.5.3, 4.5.4, 4.5.5, 5, 24 (Category A & C); JDQ 53.3
Humidity	DIN 50017-S; MIL-STD-810 Method 507; IEC 60945/Ed4 Sections 8.3; MIL-STD-202 Methods 103B and 106G; RTCA/DO-160 Section 6; JDQ 53.3
Thermal Shock:	IEC 60945/Ed4 Sections 8.5; MIL-STD-202 Method 107G; MIL-STD-810 Method 503; JDQ 53.3

Test Description/ Parameters ¹	Methods
Vibration: Up to 15000 lbf (3 to 2,500) Hz with Combined Environments of (-77 to 177) °C; (10 to 95) %RH; Acceleration up to 100 g	IEC 60945/Ed4 Section 8.7; MIL-STD 202 Methods 106G and 201A, Method 204D, 214A; MIL-STD-810 Methods 514 and 516, Procedures IV and VI; RTCA/DO160 Section 8; MIL-STD-167; IEC 60068-2-6/Ed7; EN 60068-2-6:2008; IEC 60068-2-64/Ed2; EN 60068-2-64:2008; JDQ 53.3
Shock: Up to 100 g; 1/2 Sine < 1 ms to 35m/s at Terminal Peak	MIL-STD- 202 Method 213B (higher levels need drop tower); MIL-STD-810 Method 514; MIL-STD-810 Method 516, Procedures I, II, III, and V, RTCA/DO160 Section 7.2, 7.3.1/SRS – MIL-STD-810– MIL-STD-810 – MIL-STD-810; IEC 60068-2-27/Ed4; EN 60068-2-27:2009; JDQ 53.3
Altitude up to 200,000 feet	RTCA/DO160 Section 4; MIL-STD-810
Acceleration/Crash Safety (0 to 20) g	MIL-STD 810 Method 513; RCTA/DO-160 Section 7.3.3
Fungus	MIL-STD-810 Method 508; RCTA DO 160 Section 13
Immersion	MIL-STD 810 Method 512; IEC 60945 Ed 4, Section 8.9; JDQ 53.3
Explosive Atmosphere	MIL-STD 810 Method 511; RTCA/DO-160, Section 9
Icing/Freezing Rain	MIL-STD-810, Method 521; RTCA/DO-160, Section 24
Contamination by Fluids/Fluid Susceptibility	MIL-STD 810, Method 504; RTCA/DO-160, Section 11; JDQ 53.3
Drop Test	IEC 60945/Ed4, Section 8.6.1
Waterproofness	RTCA/DO-160 Sections 10.3.1, 10.3.3, 10.3.4; IEC 60529, Section 14; JDQ 53.3



Test Description/ Parameters ¹	Methods
Mixed Flowing Gas	ASTM B845; ASTM B827; IEC 60068-2-60/Ed3; EN 60068-2-60:2015; Ford ES-2L2T-14K147-AA; JDQ 53.3; MBN MV 124-2
Flammability	RTCA/DO-160 Section 26.6; 14 CFR Part 25, Appendix F, Part 1; DOT/FAA/AR-00/12 Sections 1.0, 2.0, 3.0, 4.0

¹ Also using customer specific test methods utilizing any combination of test equipment parameters listed above.

For the following types of industries:

Aerospace; Defense; Telecommunications; Electrical; Electronics; Automotive; Information Processing and Scientific Instruments.





Accredited Laboratory

A2LA has accredited

CKC LABORATORIES, INC.

Bothell, WA

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 13th day of May 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 0803.09
Valid to March 31, 2021

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