



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AEROSPACE TESTING SERVICES¹
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MECHANICAL

Valid To: February 29, 2024

Certificate Number: 3243.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on aluminum alloys and other metals, composites, plastics, polymers, and rubber used in the aerospace marketplace:

Test Type/Technology:

Test Method:

Adhesion – Pressure Sensitive Adhesive Labels for Bar Coding	MIL-PRF-61002B, Section 4.2.5
Adhesion of Coatings to Substrates	ASTM D3359; FS 141-6301; ISO 2409
Bend Test Cylindrical Mandrel	ISO 1519
Breaking Strength and Elongation of Pressure Sensitive Tape (Procedure A)	ASTM D3759/3759M
Climbing Drum Peel for Adhesives	ASTM D1781
Color Measurement	ASTM D2224; ISO 7724
Compressive Properties of Rigid Plastics (RT to 300° F)	ASTM D695
Conical Mandrel Bend	ISO 6860
Density	ASTM D792 (Method A), D1475
Dry Time/Tack Free Time/Print Free Time Evaluation	EN ISO 3678; FS 141D, (Method 4061.3) Sections 4.4, 4.5, and 4.7; ISO 1517, 9117-1, -6
Elongation by Impact; GE Impact Flexibility	ASTM D6905; MIL-PRF-85582C, 23377G, 85285A
Filiform Corrosion	ASTM D2803; BS EN 3665; ISO 4623-2

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Test Type/Technology:

Test Method:

Film Thickness	ASTM D7091; ISO 2808 (Method 7)
Fineness of Grind	ASTM D1210; Fed-STD-141 (Method 4411 Rev. C)
Flash Point	ASTM D56, D3278, D3828; IP 303; ISO 3679
Fluid Resistance	ISO 2812-1
Gloss Measurement	ASTM D523; ISO 2813
Hardness (Shore A and Shore D)	ASTM D2240
Heat Resistance	AMS 3095; ISO 3270
Impact Resistance	ASTM D2794; ISO 6272-1, 6272-2
Paint Viscosity - Zahn	ASTM D4212
Peel Adhesion of Pressure Sensitive Tape	ASTM D3330/D3330M (Method A)
Pencil Hardness Evaluation	ASTM D3363
Quality Appearance	ISO 1513
QUV-B Exposure of Coatings to Artificial Weathering	ISO 11507 (<i>Withdrawn 2013</i>) ² , ISO 16474-1. 16474-2
Refractive Index	ASTM D1218 (Procedure B)
Salt Spray/Fog Corrosion	ASTM B117; ISO 9227
Scratch Test	ISO 1518-1
Spraying Properties	FTMS 141 (Method 4331)
Strippability	AMS 3095 – 4.3.4
Sulfur Dioxide/Salt Spray	ASTM G85 (Annex 4); ISO-9223
Thickness of Pressure Sensitive Tapes	ASTM D3652/D3652M
Total Immersion Corrosion	ASTM F483
Viscosity	ASTM D1200
Volatile Organic Compounds (VOC) (Solvent-Borne Paints and Coatings Only)	AMS 3095; ASTM D2369; ISO 3251, 11890-1

Test Type/Technology:

Test Method:

Nonvolatile Matter in Volatile Solvents	ASTM D1353
Washability/Cleanability	MIL-PRF-85285D, Par 4.6.13
Water Resistance	ISO 2812-2
Water Vapor Transmission of Pressure Sensitive Tape	ASTM D3833/3833M
Water Penetration Rate of Pressure Sensitive Tapes	ASTM D3816/D3816M
Wet Adhesion	Fed-STD-141 (Method 6301.3)
Nonvolatile Content	SAE AS5127/1 – 5.1
Air Content	SAE AS5127/1 – 5.2
Viscosity of Base and Curing Solution	SAE AS5127/1 – 5.3 & 5.4
Flow	SAE AS5127/1 – 5.5
Application Time	SAE AS5127/1 – 5.6
Assembly Time	SAE AS5127/1 – 5.7
Tack Free Time	SAE AS5127/1 – 5.8
Standard Curing	SAE AS5127/1 – 5.9
Low Temperature Cure Time	SAE AS5127/1 – 5.10
Fluid Immersion Cure Time	SAE AS5127/1 – 5.11
Specific Gravity	ASTM D792; SAE AS5127/1 – 6.1
14-Day Hardness	SAE AS5127/1 – 6.2
Resistance to Thermal Expansion	SAE AS5127/1 – 6.4
Heat Reversion Resistance	SAE AS5127/1 – 6.5
Hydrolytic Stability	SAE AS5127/1 – 6.6
Shaving and Sanding of Sealants	SAE AS5127/1 – 6.7
Paintability	SAE AS5127/1 – 6.8
Weathering	SAE AS5127/1 – 6.9; ASTM D4214
Chalking	SAE AS5127/1 – 7.1



Test Type/Technology:

Test Method:

Resistance to Thermal Rupture	SAE AS5127/1 – 7.2
Fluid Rupture Resistance	SAE AS5127/1 – 7.3
Weight Loss and Flexibility	SAE AS5127/1 – 7.4
Volume Swell	SAE AS5127/1 – 7.5
Low Temperature Flexibility	SAE AS5127/1 – 7.6
Tensile Strength and Elongation	ASTM D412; SAE AS5127/1 – 7.7
Shear Strength	SAE AS5127/1 – 7.8
Corrosion	SAE AS5127/1 – 7.9
Corrosion Stressed Assembly and Mixed Metals	SAE AS5127/1 – 7.10
Crazing	SAE AS5127/1 – 7.11
Peel Strength (180°)	SAE AS5127/1 – 8.1
Reparability (Peel Strength)	SAE AS5127/1 – 8.2
Accelerated Storage Stability	SAE AS5127/1 – 9.1
Long Term Storage	SAE AS5127/1 – 9.2
Weathering – Xenon Arc	ASTM G155; MIL-PRF-85285-E, Section 4.6.9
Balanced Beam Scrape Adhesion	ASTM D2197
Pull Off Adhesion (PATTI)	ASTM D4541, D7234; ISO 4624, 16276-1
Construction Weight	AMS3819 – 3.1, 3.6.1; ASTM D3776M
Color/Cleanliness	AMS3819 – 3.3, 3.4
Workmanship	AMS3819 – 3.5
Water Absorption	AMS3819 – 3.7.2, ASTM D1117-01 (<i>Withdrawn</i> 2009) ² ; ISO 9073-6
Linting and Cloth Integrity	AMS3819 – 3.7.3, 4.7.4
Fiber/Binder Integrity	AMS3819 – 3.7.5, 4.7.5
Extractable Matter	AMS3819 – 3.7.6, 4.7.6; ASTM D2257

Test Type/Technology:

pH of Water Extract

Hydrogen Embrittlement

Test Method:

AMS3819 – 3.7.8; ASTM E70

ASTM F519

¹The laboratory is only accredited for the test methods listed above. The accredited test methods are used in determining compliance with the material specifications listed below. The inclusion of these documents on this Scope does not confer laboratory accreditation to them nor does it confer accreditation for the method(s) embedded within them.

AMS 3092, 3100, 3167, 3255, 3265, 3276, 3277, 3278, 3281, 3284, 3374, 3379, 3819, 5284, S-4383, S-8802, S-83318

²This laboratory's scope contains withdrawn or superseded methods. As a clarifier, this indicates that the applicable method itself has been withdrawn or is now considered "historical" and not that the laboratory's accreditation for the method has been withdrawn.