

Product Lab Performance

TEST REQUIREMENTS FOR MIL-C-81309E Type III and Amd 3 Type II

CHARACTERISTICS	REQUIREMENTS	TEST PARA	FOUND
Minimum Flash Poin	t 60°C (140°F)	4.7.1	Conforms (175°)
 Synthetic Sea Water (Sulfurous Acid Spra 		4.7.2	Conforms
Synthetic Sea Water Displacement	No visible corrosion	4.7.3	Conforms
 Removability 	Not more than 3 cycles to remove	4.7.4	Conforms
Abrasives	None present	4.7.5	Conforms
Maximum Film Thickness	Type II: 0.0005 inches	4.7.6	Conforms
Sprayability	Sprayable	4.7.7	Conforms
• Corrosivity	No visible pitting, etching or dark discoloration. No weight change (milligram/cm²) greater than 0.5 for magnesium, cadmium and zinc, nor greater than 0.2 for aluminum, copper and brass	4.7.8	Conforms
Staining	No visible evidence of staining or other deleterious effects	4.7.9	Conforms
Minimum dielectric breakdown	25,000 volts	4.7.10	Conforms 38,000 volts
 Mixability of compounds 	No evidence of separation	4.7.11	Conforms
 Lubricity of compounds 	Less than 0.20	4.7.12	Conforms
Effect on electric components	No significant change in capacitance, dissipation factor and conductance of coil forms and capacitors in the Q and amount of capacitance to resonate the coil. No significant change in the resistant of resistors. A change greater than ½ the allowed tolerance of the component shall be considered as significant	ce	Conforms
Effect on electric connectors	No significant increase in resistance between connected pins or decrease in resistance between adjacent pins	4.7.14	Conforms

ACF-50 has endorsements or approvals from 29 airframe OEM's and meets these industry anti-corrosion performance requirements.

ADDITIONAL AEROSPACE TEST DATA

TEST IDENTITY	TEST METHOD	RESULTS
Douglas Aircraft CSD #1		
Painted Surfaces Residue Surfaces	ASTM F 502 ASTM F 485	Conforms Conforms
Sandwich Corrosion Test	A31W1 403	Conforms
 Stress Crazing Acrylic Plastics 	ASTM F 484	Conforms
Immersion Corrosion Test Cadmium Removal Test	ASTM F 483 ASTM F 1111	Conforms Conforms
	ASTWIFTITI	Comorns
Douglas Aircraft DMS 2150 • Film Characteristic		Conforms
Product Composition		Conforms
Appearance To the state of the stat		Conforms
Toxicity Flash Point	ASTM D 56	Conforms Conforms
Nonvolatile Content	ASTM D 1644A	Conforms
Viscosity	ASTM D 445	Conforms
Salt Fog ExposureWater Displacement	ASTM B 117	Conforms Conforms
Removability		Conforms
Storage Stability		Conforms
BMS 3-23E		
Table I		
Flash Point	ASTM D 93	Pass
SprayabilityLow-Temperature Adhesion	MIL-C-1617D MIL-C-1617D	Pass Pass
Nonvolatile Content	ASTM D 1644	Pass
Detectability		Pass
RemovabilityStorage Stability		Pass Pass
Drying Time		Pass
 Compatibility with Cadmium 		Pass
Table II		
Water Displacement Ability Wissonity	MIL-C-1617 D	Pass
ViscosityCorrosion Inhibiting Characteristics	FED-STD 791	Pass
	(ASTM G 34)	_
Functional Penetration Test		Pass
Volatile Organic Content		
 California Air Quality Compliant 	ASTM 2369	>166.9g/L
Misc.		
Humidity ResistanceHydrogen Embrittlement	AMS 3066B ASTM F 519	Conforms Conforms
Polymide Insulated Wire	MIL-C-87937 B	Conforms
Airbus Industrie TN A 007.1	0138	0.1
Elsan / Racasan Toilet FluidTurco 5854-2L		Conforms Conforms
Orange Juice		Conforms
• Coke		Conforms
CoffeeDe-icing Fluid NATO S.745		Conforms
• 3:4		Conforms
• 1:2 • 1:4		Conforms Conforms
• 1.4 • 5% Sodium Hydroxide (NaOH)		Light Oxidation
5% Hydrochloric Acid (HCI)		Conforms
 5% Nitric Acid (HNO₃) 10% Acetic Acid (CH₃COOH) 		Conforms Conforms
• 45% Ethanol		Conforms



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