Product Specifications

ACF-50 PERFORMANCE QUALIFIED Mil-C-81309E Amd 3,Type II

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<u>Characteristics</u>	<u>Requirements</u>	Test Para	<u>Found</u>
- Minimum flash point	60°C (140°F)	4.7.1	Conforms (175F)
- Synthetic Sea Water- Sulfurous Acid Spray	Type II: No visible corrosion of carbon steel after 2 cycles.	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	Non 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. For coils no significant change in the Q and amount of capacitance to resonate the coil. No significant change in the resistance of resistors. A change greater than 1/2 the allowed tolerance of the component shall be considered as significant.	4.7.13	Conforms
- Effect on electric conectors	No significant increase in resistance between connected pins or decrease in resistance between adjacent pins.	4.7.14	Conforms

ADDITIONAL ACF-50 TEST DATA

TEST IDENTITY	TEST METHOD	RESULTS
BMS 3-23E Table I -Flash Point -Sprayability -Low-Temperature Adhesion -Nonvolatile Content -Detectability -Removability -Storage Stability -Drying Time -Compatibility with Cadmium	ASTM D93 MIL-C-1617D MIL-C-1617D ASTM D1644	Pass Pass Pass Pass Pass Pass Pass Pass
Douglas Aircraft CSD #1 - Painted Surfaces - Residue Surfaces - Sandwich Corrosion Test - Stress Crazing Acrylic Plastics - Immersion Corrosion Test - Cadmium Removal Test	ASTM F 502 ASTM F 485 ASTM F 484 ASTM F 483 ASTM F 1111	Conforms Conforms Conforms Conforms Conforms Conforms
Douglas Aircraft DMS 2150 - Film Characteristic - Product Composition - Appearance - Toxicity - Flash Point - Nonvolatile Content - Viscosity - Salt Fog Exposure - Water Displacement - Removability - Storage Stability	ASTM D-56 ASTM D-1644A ASTM D-445 ASTM B-117	Conforms
Table II -Water Displacement Ability -Viscosity -Corrosion Inhibiting Characteristic -Functional Penetration Test	MIL-C-1617D s FED-STD 791 (ASTM G 34)	Pass
Airbus Industrie TN A 007.10138 Corrosion Resistance To: Turco Toilet Fluid,Orange Juice, Coke, Coffee, De-Icing Fluid 3:4-1:2-1:4, %5 NaOH, %5 HCI, 59 HNO ₃ , %10 CH ₃ COOH, %45 Ethanol		
Volatile Organic Content -California Air Quality Compliant	ASTM 2369	>166.9g/L
MiscHumidity Resistance -Hydrogen Embrittlement -Polyimide Insulated Wire	AMS 3066B ASTM F 519 MIL-C-87937B	Conforms Conforms Conforms

