AEROPRITE™

ALUMINUM AIRCRAFT PAINT

			Abrasion Testing		Adhesion Testing		Hardness Testing		Flexibility Testing	
Coating System	**Description**	**Penetration**	**Cycles**	**Wear Index ***	**Failure Point**	**Test Result ****	**Gouge**	**Scratch *****	**Failure**	**Elongation**
Aeroprite	Primer/topcoat	To anodize	379	9.6	_____	4B	2H	HB	Very fine breaks	16.2%
Aluminum lacquer Zinc chromate	Topcoat Primer	To anodize	303	131.5	Primer/anodize	2B	2H	HB	Fine breaks	17.1%
Polyurethane Wash & epoxy Epoxy	Topcoat Primer Primer	 On topcoat On topcoat	 1150 1001	 17.9 4.4	 Primer/anodize Topcoat/primer	 3B 4B	 2H 2H	 HB HB	 Stress lines Fine stress lines	 _____ 16.9%
Alkyd enamel Wash & zinc chromate	Topcoat Primer	 To anodize	 946	 18.1	 Primer/anodize	 3B	 2B	 4B	 No breaks	 16.0%
Acrylic nitrocellulose Lacquer wash & Lacquer resistant primer	Topcoat Primer	On topcoat	1002	11.6	General system	1B	2H	HB	Complete loss of adhesion	16.9%
Epoxy Epoxy primer	Topcoat Primer	On topcoat	1010	2.5	Primer/anodize	3B	2H	HB	Small breaks to anodize	18.1%

Corrosion Testing

Coating System	Description	Results @ 750 Hours
Aeroprite Aluminum	Primer/Topcoat in one	Very slight to slight white deposits on front and back screw/panel interface. No rusting or blistering evident.
Aluminum Lacquer w/ Zinc Chromate Primer	Topcoat Primer	Very slight yellow deposits at front screw/panel interface. Upper halves (primer) showed darkening in form of streaks. No other changes evident.
Nitrocellulose Lacquer w/lacquer resistant primer and wash primer	Topcoat Primer	Very slight to slight white deposits at screw/panel interface. One assembly showed small blister at back screw/panel interface.
Zinc Rich aluminum Aeroprite	Primer/Topcoat in one	Very slight to slight white deposits at front screw/panel interface, and on back interface of one assembly. Upper 1/3 of assemblies exhibited a mottled appearance. Rusting or blistering were not evident.

ASTM Method B-287
5% Salt Fog Acetic Acid Environment

* *Low wear index number indicates best abrasion resistance*

** *5B-4B-3B-2B-1B-0B*
Best ——— Worst

*** *6B-5B-4B-3B-B-HB-F-H-2H-3H-4H-5H-6H*
Softest ——————— Hardest

Temperature Testing

(On 4" x 5" Aluminum Panels)

Temperature	Effect
-314°F	No degradation
+500°F	No degradation, slight discoloration

APV ENGINEERED COATINGS
Your Resource For Solutions!™