SPECIFIC CHARAC	CTERISITIC	TEST CONDIT	ION	EFFECT
Exterior Exposure		Black and silver image exceeds 400 hr. Weatherometer Test GG-P-455b, estimated equivalent to 20 yr. exposure		No effect
Abrasion Resistance		Taber Abraser with CS17 wheel, a total of 1000 gm. load, 7000 cycles		Slight dulling of surface
Temperature Resistance		No legibility loss or surface degradation when exposed to temperatures up to 750°F for one hour with image-intensified Metalphoto (non-intensified Metalphoto achieves similar results at 400°F Heat resistance of up to 1,000°F is achievable. Please contact Horizons ISG to learn more.		
Salt Spray		5% at 95°F for 7	700 hrs.	No corrosion
Chemical Resista	nce			
MIL-S-3136 111 Hydrocarbon Fluid		1 hr. immersion		No effect
MIL-L-5161C-Turbine and jet engine fuel		1 hr. immersion	1 hr. immersion	
JP-4 fuel		72 hr. immersion		No effect
Kerosene		12 hr. immersion		No effect
Skydrol (Hydraulic Fluid)		24 hr. immersion, at both room temperature and boiling point		No effect
Methyl Ethyl Ketone (MEK)		24 hr. immersion		No effect
Ethyl Acetate		24 hr. immersion		No effect
Xylol		72 hr. immersion	72 hr. immersion	
Heptane		72 hr. immersion		No effect
Ethyl Alcohol		72 hr. immersion		No effect
Ferric Chloride		10% solution, 16 hr. immersion		No effect
Ammonium Hydroxide		10% solution, 16 hr. immersion		Slight dulling
MIL-P-21563 soap solution		16 hr. immersion	16 hr. immersion	
MIL-C-25179 AIN in heptane		25% solution, 1 min. immersion (cleaning solution)		No effect
Sulfuric Acid		10% solution, 24 h	10% solution, 24 hr. immersion	
Phosphoric Acid		1% solution, 12 hr.	1% solution, 12 hr. immersion	
Nitric Acid		3% solution, 72 hr.	3% solution, 72 hr. immersion	
TSP (Trisodium Phosphate)		1% solution, 40 hr. immersion		No effect
	ME	TALPHOTO PROD	DUCT SPECIFICATIONS	
SPECIFICATION	PUBLICATION	DETAIL	DESCRIPTION	
GG-P-455b	Federal Specification	Type I, Grade A or B Classes 1 & 2	Photosensitive anodized aluminum impregnated with silver compounds printable on one or two sides—all finishes and thicknesses.	
MIL-P-15024G	Military Specification	Type H & G	Totally anodized aluminum with characters integrated into the anodized layer photographically using silver compounds.	
MIL-P-19834B	Military Specification	Type I or II, Style III or IV	ype I or II,  Metalphoto .003" thick plates with the proper adhesive applied meets or exceeds all of the performance requirements	
MIL-P-514D	Military Specification	Composition C	Photosensitive aluminum plates, grade and cla in federal specification GG-P-455b.	iss as specified



by resist or screen process.

Metalphoto products

Industrial-

Commercial Products Original Equipment

Panel Fronts

Nameplates

\* Metalphoto is a registered trademark of Horizons Research Incorporated.

Material shall be Metalphoto. Image (black on silver or silver on black) shall be sealed into the anodized layer with photosensitive silver compounds; colors other than black may be imbedded

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