## **DURABILITY PLUS!!**

F	Metalphoto Environmental Properties										
	Results	Abrasion Resistance	Solvent/Fuel Resistance	Tempera Resista		Ultraviolet Light Resistance	Salt Spray/Immersion Resistance		Chemical Resistance Acid Bases		
	Excellent  Acceptable  Not Recommended	Taber Abraser with CS17 wheel, 1000 gram load for 7000 cycles.	Extended immersion in alcohol, kerosene, JP-4 jet fuel, hydraulic fluid, MEK and other organic solvents at room temperature.	Oven to for o hou	ne	400 Hour Weatherometer test.  recognized equivalent of 20 years outdoor exposure.	Salt Spray testing with a 5% NaCl solution at 90°F for 700 hours.	Immersed plates in sea water at ambient temperature for an extended period of time avoiding galvanic coupling.	24 hour immersion at room temperature in 3% solutions of nitric acid, sulfuric acid and ferric chloride.	24 hour immersion at room temperature in 3% solution of Clorox.	24 hour immersion at room temperature in 3% solutions of sodium or ammonium hydroxide.
stics	Black & Aluminum, Image Intensified.									0	0
racteris	Black on Gold* Background, Image Intensified.						0	0		0	0
Plate Cha	Black & Aluminum, Not Image Intensified.				0		0			0	0
Finished Pla	Black on Gold* Background, Not Image Intensified.				O		0	0		0	0
	Additional Background or Selective Colors			O	O	0	0			0	0

Note: Users must test Metalphoto products in the specific environment anticipated. Metalphoto does not warrant performance of its materials in any environment. \*Includes Sunfast and Classic Gold Products

## PERFORMANCE CHARACTERISTICS PHOTOSENSITIVE ANODIZED ALUMINUM NAMEPLATES

Characteristic	Result					
Abrasion Resistance	No pronounced image loss, degradation, or reduced readability					
	after 7000 cycles of an abrading wheel.					
Acid Corrosion	No deterioration or image degradation after 24 hours in 3% nitric acid.					
Heat Resistance	No legibility loss or degradation when subjected to 1000 degrees F.					
Salt Spray corrosion	No deleterious effect after a 720-hour salt spray (fog) test. 2,6 "Very					
	good" corrosion resistance after 113 days seawater exposure.					
Accelerated Light and	No pronounced deterioration of legibility after 400-hour carbon arc					
Weather Resistance	weatherometer exposure.					
Accelerated Oxygen	No discoloration or fading after 96hour/300psi/70 degrees C oxygen					
Aging	bomb aging.					
Stain Resistance	No black fading when plates are exposed to tincture of iodine.					
Cleaning Resistance	No deleterious effects when tested with alkaline cleaners					
	(MIL-C-87937 or equivalent) for aircraft surfaces.					

Low Temperature	No deleterious effect or image fade after 1 hour at -50 degrees F. No
Resistance	impairment of legibility upon exposure at -67 F.
Organic Solvent	No softening, staining, or noticeable fade after 24-hour
Resistance	exposure to: JP-4 fuel, Gasoline, Mineral spirits, Methyl ethyl ketone,
	Turpentine, Turbine & jet fuel, Kerosene, Xylol, Acetone, Toluol,
	Heptane, Trichlorethylene, Mil-H-5606 Hydraulic fluid, and
	MIL-L-7808 jet engine oil.
Fungus Resistance	Visual reading of "0" per ASTM-G21
Thermal Shock	No deterioration after 3 cycles between -65 degrees C & 125 degrees C
Moisture Resistance	No deterioration after 10 humidity cycles per MIL-STD-202, Method 106.