

metaphoto®

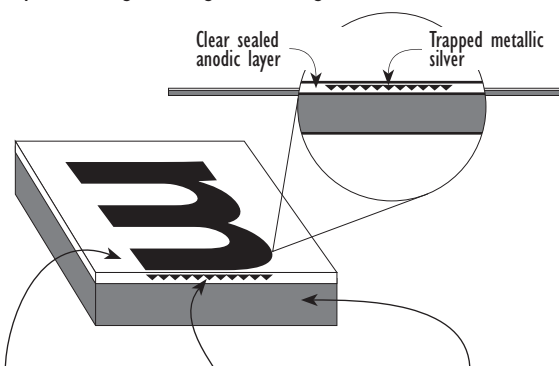


Specific Characteristics	Test Conditions	Effects
Exterior Exposure	Black and silver image exceeds 400 hrs Weatherometer test GG-P-455b, estimated equivalent to 20 years exposure	No effect
Abrasion Resistance	Taber Abraser with CS17 wheel, a total of 100 gm load, 7000 cycles	Slight dulling of surface
Temperature Resistance	Black & silver image, intensified, 1000°F Black & silver image, standard, 750°F	Slight dulling Slight dulling
Salt Spray	5% at 95°F for 700 hrs	No corrosion
MIL-S-3136 111 Hydrocarbon Fluid	1 hr immersion	No effect
MIL-L-5161C-Turbine and jet engine fuel	1 hr immersion	No effect
JP-4 fuel	72 hrs immersion	No effect
Kerosene	12 hrs immersion	No effect
Skydrol (Hydraulic Fluid)	24 hrs immersion, at both room temperature and boiling point	No effect
Methyl Ethyl Ketone (MEK)	24 hrs immersion	No effect
Ethyl Acetate	24 hrs immersion	No effect
Xylol	72 hrs immersion	No effect
Heptane	72 hrs immersion	No effect
Ethyl Alcohol	72 hrs immersion	No effect
Ferric Chloride	10% solution, 16 hrs immersion	No effect
Ammonium Hydroxide	10% solution, 16 hrs immersion	No effect
MIL-P-21563 soap solution	16 hrs immersion	Slight dulling
MIL-C-25179 AIN in heptane	25% solution, 1 min. immersion (cleaning solution)	No effect
Sulfuric Acid	10% solution, 24 hrs immersion	No effect
Phosphoric Acid	1% solution, 12 hrs immersion	No effect
Nutric Acid	3% solution, 72 hrs immersion	No effect
TSP (Trisodium Phosphate)	1% solution, 40 hrs immersion	No effect

A Very versatile idea !

Metalphoto anodized aluminum nameplates and panels combine unusual durability with a long-lasting quality appearance. Metalphoto nameplates and panels function perfectly for years, maintaining their original good looks under a broad variety of challenging environments, including high temperatures, long outdoor exposure, abrasion, salt spray and most chemicals. Metalphoto gets its durability from the fact that its unique process imbeds the image within a sapphire-hard anodized layer.

Often used when durability is a key concern, Metalphoto plates are produced by exposing aluminum impregnated with a silver compound to light through a film negative.



Anodized Layer
The glass-clear, sapphire-hard anodized layer resists chemicals, paint, abrasion and dirt.

Aluminum Layer
The rigid aluminum base won't peel, crack or delaminate.

Sealed Image
The black graphics are metallic silver particles that hold up to extreme heat and sunlight exposure.



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METALPHOTO PRODUCT 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-15024D	Military compounds	Types H & G	Totally anodized aluminum with characters integrated into the anodized layer photographically using silver
MIL-P-19834B	Military Specification	Type I or II Style III or IV	Metalphoto .003" thick plates with the proper adhesive applied meets or exceeds all the performance requirements of this spec
MIL-P-514D	Military Specification	Composition C	Photosensitive aluminum plates, grade and class as specified in federal specification GG-P-455b
Industrial- Commercial Products	Original Equipment Panel Fronts Nameplates	Metalphoto Products	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 by resist or screen process