



MetalPhoto® Photosensitive Anodized Aluminum

www.BradyID.com

Permanent Identification Solutions



Anodic Layer

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

Sealed Image

Black graphics are metallic silver particles that hold up to extreme heat and sunlight exposure.

Aluminum Layer

The rigid aluminum base will not peel, crack or delaminate.



Exceptionally durable. Long-lasting. Always readable.

MetalPhoto® is the leading material for durable, long-lasting barcode labels, asset tags and variable information plates. Made of photosensitive anodized aluminum, these reliable custom tags and labels are designed to work with your specific asset tracking system and remain readable for more than 30-years outdoors.

- **Exceptionally Durable** — Sealed within the anodic layer, the image is resistant to abrasion, intense temperatures, UV exposure, chemicals and solvents
- **Improves accuracy** — Eliminates errors caused by manual data collection and offers a more precise image compared to engraving
- **Widely Specified** — Meets an array of commercial, government and military specifications, including GGP-445B, CSA 111331, File 7921, MIL-STD-130N, MIL-A-8625F and MIL-DTL-15024F
- **How to order** — Please contact us to receive a custom quote or to receive samples.

Applications:

- UID barcode labels
- Meter badges
- Streetlight pole asset ID tags
- Distribution pole asset ID tags
- Machine panel fronts
- Nameplates
- Interior/exterior signage
- Long-term asset tags
- Wayfinding signs
- Equipment labels

Standard Custom Offerings:

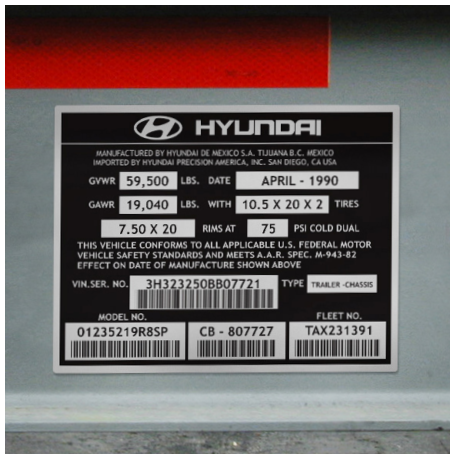
- 5-mil matte ¾" x 1.5" label with pressure sensitive adhesive
- 20-mil matte 2" x 8" tag
- 20-mil matte 2" x 6" tag
- Other custom sizes available

We also offer custom tags or labels with any of the following components:

- Barcodes
- QR codes
- Company logos
- Contact information
- And more!

Customize your MetalPhoto® tags today!

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Durability Characteristics

Specification	Characteristic	Test Condition	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			650°F
Salt Spray		5% at 95°F for 700 hrs.	No Corrosion
Chemical Resistance			
MIL-S-3136 1 111 Hydrocarbon Fluid		1 hr. immersion	No Effect
MIL-L-5161C-Turbine and jet engine fuel		1 hr. immersion	No Effect
JP-4 Fuel		72 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		24 hr. immersion	No Effect
Heptane		24 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	No Effect
MIL-C-25179 AIN in heptane		25% solution, 1 min. immersion (cleaning solution)	No Effect
Sulfuric Acid		10% solution, 24 hr. immersion	No Effect
Phosphoric Acid		1% solution, 12 hr. immersion	No Effect
Nitric Acid		3% solution, 72 hr. immersion	No Effect
TSP (Trisodium Phosphate)		1% solution, 40 hr. immersion	No Effect
Sodium Hydroxide		1% solution, 1 hr. immersion	Not Recommended (surface attack)

Specification	Publication	Detail	Description
GG-P-455b	Federal Specification	Type I, Grade A or B Class 1 & 2	Photosensitive anodized aluminum impregnated with silver compounds printable on one or two sides - all finishes and thicknesses
MIL-P-15024D	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	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.

metalphoto®

Label, Sign & Safety Solutions

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BRADY
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