



You asked for it
and now we've got it!

Introducing the newest addition to the Photo Anodized Product Family – UV Defend Metal Bar Code Nameplates and Foil Bar Code Labels! Developed specifically for outdoor applications exposed to direct sunlight and other extreme environmental conditions, these nameplates and labels feature our image intensification process extending their lifetime to 20 plus years outdoors.

In addition to the intensification process, these tags include a few design “tweaks” intended to take these already durable products and make them even more robust. Both the labels and nameplates feature thicker standard materials – .005” and .012”, respectively – while the metal option also comes with a new breakaway tab for easier liner removal adding to the resiliency and versatility of this product. In addition, both products feature a standard adhesive as well as an optional adhesive for applications involving exposure to high heat and chemicals while optional holes are available with the metal option to affix the nameplate using mechanical fasteners.

Just like the rest of the Photo Anodized Product Line, the UV Defend Metal Bar Code Nameplates and Foil Bar Code Labels are produced using a photo imaging process that seals images within the sapphire-hard anodic layer of the aluminum – resisting chemicals, solvents, abrasion and dirt – ensuring accurate and reliable reads for years to come.



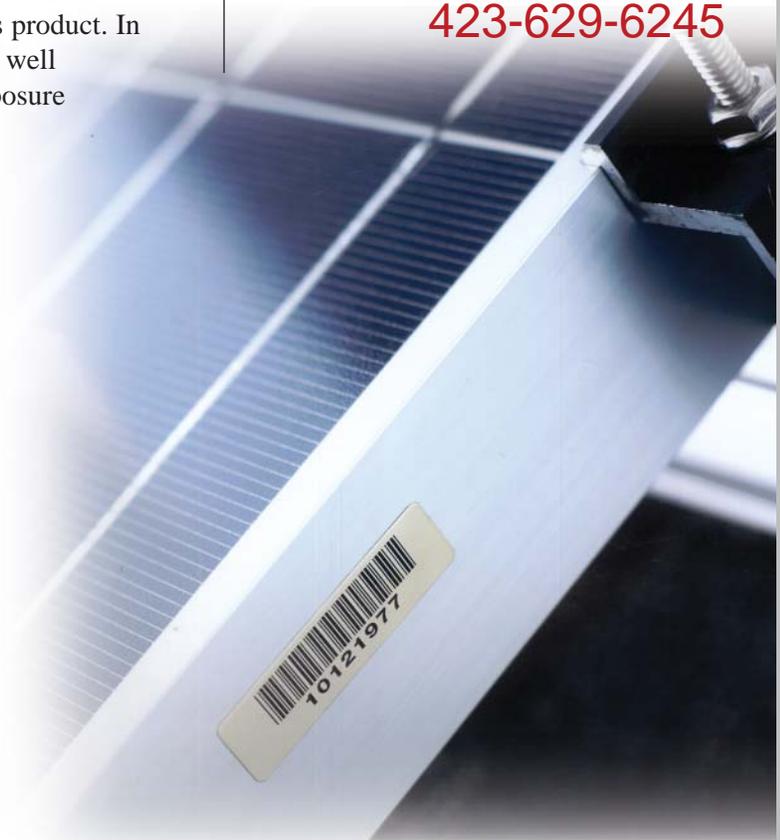
AUTHORIZED DISTRIBUTOR:
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Key Product Features

- Thicker standard materials - .005” (foil) and .012” (metal) for added resiliency; optional thicknesses available
- Breakaway tab for easier liner removal available (metal only) on standard sizes
- Intensification process increases heat resistance and improves image resistance against damaging UV rays
- Available with standard adhesive that resists high heat and chemicals and/or holes for mechanical fasteners (metal only)
- Photographically reproduced black copy and bar code ensure accurate and reliable reads
- Anodized process protects black copy and bar codes from chemicals, solvents, abrasion and dirt

Not sure what product you need?
Call our trained Experts!

423-629-6245



UV Defend Products Specifications

Material (Metal): .012" thick matte anodized aluminum standard. Other thicknesses available include .008", .032" and .063".

Material (Foil): .005" thick matte anodized aluminum standard; .003" optional.

Bar Codes: All alphanumeric bar codes are photo imaged with a human-readable equivalent. Guaranteed no skips in sequence. Code 39 with 2.7 to 9.4 characters per inch (CPI) is standard.

Other bar code symbologies including Code 128, 12 of 5, and 2D.

Label Copy: Printed copy may include block type, stylized type, logos/other designs. Black copy is produced photographically.

Colors: Available in black-type and black-designed only.

Standard Sizes (Metal):

No. 191/191T*: 2" x 5/8" No. 483/483T* 2 1/4" x 1 3/8"

No. 037/037T*: 2 1/2" x 1 3/4"

Standard Sizes (Foil):

No. 123: 1 3/4" x 1/2"

No. 277: 2" x 3/4"

No. 912: 1 3/5" x 1"

Standard Adhesive (Metal): Pressure-sensitive acrylic adhesive (MC778), .0035" thick supported by a liner. Very high peel strength that provides excellent resistance to heat and chemicals. Will withstand temperatures from -40°F to 300°F (intermittent). Shelf life of 24 months when stored at 72°F (22°C) and 50% relative humidity.

Optional Adhesive (Metal):

Pressure-sensitive acrylic adhesive (MC69), .005" thick supported by a liner. Very high bond (VHB) adhesive that provides excellent resistance to heat and chemicals.



* Tabbed option available with .012" metal only.

Will withstand temperatures from -40°F to 500°F (intermittent). Shelf life of 24 months when stored at 72°F (22°C) and 50% relative humidity.

Optional Holes: Available upon request for mechanical fasteners. Standard hole diameters include: 3/32", 3/16", and 1/8". Contact Metalcraft for additional dimensions. A 1/4" diameter quiet zone must be allowed at the beginning and end of the bar code inside the mechanical fastener area.

Standard Adhesive (Foil): Pressure-sensitive acrylic adhesive (MC78), .002" thick supported by a liner. Very high peel strength that provides excellent resistance to heat and chemicals. Will withstand temperatures from -40°F to 300°F (intermittent). Shelf life of 24 months when stored at 72°F (22°C) and 50% relative humidity.

Optional Adhesive (Foil): Pressure-sensitive acrylic adhesive (MC60), .002" thick supported by a liner. Very high bond (VHB) adhesive that provides excellent resistance to heat and chemicals. Will withstand temperatures for -40°F to 500°F (intermittent).

Packaging (Metal): Shipped in "work-out-of" cartons for convenient application. Both cartons and trays are clearly marked to indicate serial numbers of contents.

Packaging (Foil) Shipped in peel-off strips for easy removal. Both cartons and trays are clearly marked to indicate serial numbers of contents. Pressure-sensitive orders are shipped with cleaner and application instructions.

Shipment: 7 work days upon receipt of order and proof of approval.

To Order: Call **1-423-629-6245** and ask for customer service.

Test Results

These tests were conducted for a limited period of time in strict laboratory conditions. In order to achieve maximum satisfaction we highly recommend that any customer considering use of this product test the labels in the environment in which they will be used.

Characteristics	Test Conditions	Effect
CHEMICAL RESISTANCE		
Water/Humidity		No effect
Salt Spray	5% at 95°F, 700 hours	No effect
Ammonium Hydroxide	2 hours at 1% and 5%	Slight dulling of image, affects overall readability
Ethyl Alcohol		No effect
Ethyl Acetate	24 hours	No effect
Ferric Chloride	10%, 16 hours	No effect
Heptane	72 hours	No effect
Hydrocarbon Fluid		No effect
JP-4 Fuel		No effect
Kerosene		No effect
Methyl Ethyl Ketone		No effect
Nitric Acid	1%, 40 hours	No effect
Phosphoric Acid	1%, 40 hours	No effect
Skydrol		No effect
Sodium Hydroxide		Affects overall readability
Sulfuric Acid	10%, 24 hours	No effect
Turbine and jet fuel (MIL-L 5161C)	(MIL-L 5161C)	No effect
Tetra Sodium Pyrophosphate	1%, 40 hours	No effect
Trisodium Phosphate		No effect
TEMPERATURE RESISTANCE		
(Image Intensified)	265 hours at 500°F, 90 hours at 600°F, 60 hours at 700°F	Reduced overall readability after these thresholds
UV EXPOSURE		
(Image Intensified)	Weatherometer, 20 years equivalent	Reduced overall readability after these thresholds
ABRASION RESISTANCE		
(Image Intensified)	Plates brushed for 7,000 cycles with stiff nylon wheel (C-17) at a 1,000 gm (16 ox.) load	Reduced overall readability after these thresholds