

## Photo Anodized Metal Nameplates

### Key Product Features

- Photographically reproduced black copy, logos and bar codes ensure accurate and reliable reads
- Anodizing process protects black copy, logos and bar codes from chemical, abrasion and high temperatures
- Adhesives specially matched to surface for maximum adhesion or optional holes available for mechanical fasteners
- Optional intensification process increases heat resistance and improves the image resistance for other environmental conditions
- Nearly 500 sizes means no extra tooling charge

**800-437-5283**

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



you have come to expect with any Metalcrafft product.

They have consistently remained one of our most popular

products for our customers due to their dependability as well as

the options available including thickness of material, adhesive

options and size selection. With over 500 sizes available

chances are very likely we will have just the size you need.

Available with or without a bar code, Photo Anodized Metal

Nameplates are ideal for customers who require permanent

nameplates to stand up in harsh environments. Black copy,

logos and bar codes are photographically reproduced for

maximum clarity and detail and then sealed within the anodic

layer of the aluminum – ensuring accurate and reliable reads

for years to come. Optional second colors are screen printed.

For applications where the nameplate will be exposed to

higher temperatures or more extreme environmental conditions

Metalcrafft offers an optional intensification process that

increases heat resistance to 1000°F (intermittent) and improves

image resistance for other environmental conditions including

damaging UV rays. In addition, this product is available

with pressure-sensitive adhesive or optional holes for

mechanical fasteners.



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## Photo Anodized Metal Nameplates Specifications

Material: .008" matte anodized aluminum is standard. Optional thicknesses include: .012", .032", and .063".

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 DataMatrix as well as OCR characters and CPIs available.

Label Copy: The printed label copy may include block

type, stylized type, logos or other designs. All black copy is produced photographically. Colors other than black are

screen printed.

Colors: Choose black only or one of our standard colors

(red, blue, green, or yellow) for block style type, stylized

type, logos or other designs. Due to the contrast needed for

the bar code scanner, all bar codes are black. Metalcrafft

color samples are available upon request.



Finish: All black copy and bar codes are sealed in an anodic layer to resist defacing, abrasion and environmental conditions.

Standard Sizes:

No. 050: 1 1/4" x 3/8"

No. 033: 1 1/2" x 3/4"

No. 191: 2" x 5/8"

No. 019: 2" x 1"

No. 160: 3 7/16" x 1 3/16"

No. 045: 1 1/2" x 1/2"

No. 029: 1 3/4" x 5/8"

No. 277: 2" x 3/4"

No. 016: 2 1/2" x 1 3/16"

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

No. 136: 2" x 9/16"

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

No. 074: 3" x 1"

There are over 500 other sizes available upon request. Send e-mail to [metalcrafft@idplate.com](mailto:metalcrafft@idplate.com), fax request to 641-423-8898 or call 800-437-5283 and ask for customer service.

Standard Adhesive: Pressure-sensitive acrylic adhesive (MC53LE), .0035" thick supported by a liner. Provides an excellent bond to plastic or powder coated metal surfaces and a very good bond to bare metal surfaces. Also bonds very well to slightly oily surfaces or those plastics that may have a mold release. Will withstand temperatures from -40°C to 300°F (intermittent). Shelf life of 24 months when stored at 72°F (22°C) and 50% relative humidity.

Optional Adhesive: Pressure-sensitive acrylic adhesive (MC68), .005" thick supported by a liner. Provides an excellent bond to unpainted metal surfaces such as

aluminum and stainless steel as well as glass surfaces. Will withstand temperatures from -40°C to 400°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 Metalcrafft for additional dimensions.

A 1/4" quiet zone must be allowed at the beginning and

end of the bar code inside the mechanical fastener area.

Packaging: Shipped in "work-out-of" cartons for

convenient application. Each carton consists of one or

more plastic trays containing 250 sequentially packed

nameplates (can vary with metal thickness). Both cartons

and trays are clearly marked to indicate serial numbers

of contents. Pressure-sensitive adhesive orders are shipped

with cleaner and application instructions.

Shipment: 5 work days (Black-Type, Black-Designed),

10 work days (Color-Designed) upon receipt of order and

proof approval.

To Order: Call **1-800-437-5283** and ask for

customer service.

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# Photo Anodized Metal Nameplates Performance Information

The chart included with this information will help determine if anodized aluminum is right for your application. Always test a sample in your exact environment to ensure performance. Tests were conducted in laboratory environments and may or may not simulate your conditions.

Photo anodized aluminum bar codes are known for maintaining their readability in a wide range of environments and uses. They perform better than other types of labels and nameplates in demanding environments with the exception of those environments that chemically attack aluminum, such as highly caustic or highly acidic applications. Recommended performance is in a pH range of 5.5 to 8.5.

Temperature Tests		
Product Tested	Test Conditions	Effect on Readability
Standard Photo Anodized	60 hours 375°F	Dark reflectance is reduced at these thresholds. This can affect readability.*
Image Intensified	265 hours 500°F	
Photo Anodized	90 hours 600°F 60 hours 700°F	

Ultraviolet Exposure Tests		
Product Tested	Test Conditions	Effect on Readability
Standard Photo Anodized	Weatherometer, 5 years equivalent	Reduced overall readability after these thresholds.*
Image Intensified	Weatherometer, 20 years equivalent	

Abrasion Tests		
Product Tested	Test Conditions	Effect on Readability
Standard and Image Intensified Photo Anodized	Plates were brushed for 7000 cycles with a stiff nylon wheel (C-17) at a 1000 gm (16 oz.) load	Reduced overall readability after this threshold.*

## Environmental, Chemical Atmosphere & Contact Tests

Characteristics	Test Conditions	Result	
Acids and Bases	Ammonium Hydroxide	Slight dulling of image; affects overall readability*	
	Ferric Chloride, 10%, 16 hours	No effect	
	Nitric Acid, 1%, 40 hours	No effect	
	Phosphoric Acid, 1%, 40 hours	No effect	
	Sodium Hydroxide	Affects overall readability	
	Sulfuric Acid, 10%, 24 hours	No effect	
	Cleaning Agents	Water	No effect
		Tetra sodium pyrophosphate, 1%, 40 hours	No effect
		Trisodium Phosphate	No effect
		Fungus Resistance	Visual reading of "0" per ASTM-G21
Moisture Resistance	No deterioration after 10 humidity cycles per MIL-STD-202, method 106	No effect	
Low Temperature Resistance	No deleterious effect of image fade after 1 hour at -50°F. No impairment of legibility upon exposure at -67°F.	No effect	
Organic Solvents	Ethyl Alcohol	No effect	
	Hepane, 72 hours	No effect	
	Hydraulic Fluid	No effect	
	JP-4 Fuel	No effect	
	Kerosene	No effect	
	Methyl Ethyl Ketone	No effect	
	Skydrol	No effect	
	Turbine sodium pyrophosphate, 1%, 40 hours	No effect	
	Salt Spray Corrosion	Salt Spray, 5% at 95°F, 700 hours	No effect
	Stain Resistance	No black fading when plates are exposed to tincture of iodine	No effect
Thermal Shock	No deterioration after 3 cycles between -65°C and 125°C	No effect	

\*Bar code labels and nameplates exhibit reduced readability when they cannot be read from the same distances and/or angles as before they were degraded. In most cases the print contrast ratio has been reduced. Labels and nameplates may read, but they may require more attempts to read or may read at limited distances and/or angles.

Photo anodized bar code labels and nameplates read reliably in demanding situations. Different results may be experienced due to variances in reader type, reader distance, cleanliness of part surface or label or nameplate design. Please test a sample part for your application.