Pallet Bar Code Nameplates Specifications

Material: .008” thick matte anodized aluminum is standard. Optional thicknesses include: .012”, .020”, .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, I 2 of 5 and DataMatrix as well as OCR characters and CPIs available.

Label Copy: The printed label copy can 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. Metalcraft color samples are available upon request.

BLACK BLUE RED GREEN YELLOW

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

Sizes:
No. 080: 3 1/2” x 2” No. 253: 5 1/2” x 1 1/2”

Other sizes available upon request. Send e-mail to metalcraft@idplate.com, fax request to 641-423-8898 or call 800-437-5283 and ask for customer service.

Standard Adhesive: .005” thick pressure-sensitive acrylic adhesive (MC72) suitable for use on many surfaces including low surface energy plastics such as polypropylene and polyethylene. Will withstand temperatures up to 250°F (intermittent). Shelf life of 12 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” 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 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 a roller, cleaner, and application instructions.

Shipment: 5 work days upon receipt of order and proof approval.

To Order: Call 1-800-437-5283 and ask for customer service.

METALcraft I.D. PLATES & LABELS
149 4th Street SW • P.O. Box 1468
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Pallet Bar Code Nameplates

Maximize efficiency in your warehouse and ensure that pallets heading out the door will come back by tracking them with Metalcraft’s Pallet Bar Code Nameplates. Additional applications include tracking products, loaded, stored or transported on pallets.

These nameplates are ideal for rigorous manufacturing environments because the copy and bar code are photographically reproduced for maximum clarity and detail and then sealed within the anodic layer of the aluminum ensuring accurate and reliable readings every time. This process also protects the copy and bar code from extreme solvents and abrasion as well as high temperatures. Pallet Bar Code Nameplates come with a standard adhesive specially designed to adhere to polypropylene pallets. This product is also available with optional holes for mechanical fasteners in order to affix the nameplate to the pallet.

Key Product Features

- Specially designed adhesive adheres extremely well to polypropylene or polyethylene pallets or optional holes are available for mechanical fasteners
- Photographically reproduced copy and bar codes ensure accurate and reliable reads
- Anodizing process protects copy and bar codes from chemicals, abrasion and high temperatures

Not sure what product you need?
Call our trained Experts!
800-437-5283

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Pallet Bar Code Nameplates Performance Information

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.

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.

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 Photo Anodized	265 hours 500°F 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 Photo Anodized	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

Test Conditions	Effect on Readability
Water/Humidity	No effect
Salt Spray 5% at 95°F, 700 hours	No effect
Ammonium Hydroxide 2 hours at 1% 2 hours at 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)	No effect
Tetra sodium pyrophosphate, 1% 40 hours	No effect
Trisodium Phosphate	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.