

Paint-Resist Metal Barcode Nameplates



Features

Color logos or designs available in standard colors – black, red, yellow, green or blue

Fluoropolymer laminate designed to resist up to 12 paintings and withstand continuous temperatures up to 350°F

Anodizing process and fluoropolymer laminate protects black copy, logos, and bar codes from chemicals, abrasion and high temperatures

Adhesives specially matched to surface for maximum adhesion or optional holes available for mechanical fasteners

Product Print Options

Barcode . Data Matrix . QR Code . Serial Number . Text

Product Functionality

Abrasion Resistance . Chemical Resistance . Heat Resistance . UV/Outdoor Durability

Popular Applications

Manufacturing

Category

Manufacturing . Asset Tracking . Work-in-Process . Metal Asset Tags . Metal Barcode Nameplates . Paint-Resist Metal Nameplates

Metalcraft's Paint-Resist Metal Barcode Nameplates can withstand many paint applications while sporting a color design.

These unique and economical tags feature a fluoropolymer laminate that resists multiple paint applications (approximately 10-12), grease and graffiti. They can withstand temperatures up to 350°F. After painting, customers simply pick off the dried paint and are left with a clean, easy-to-scan Metal Barcode Nameplate – a great product for work-in-process applications.

Available with or without a barcode, Paint-Resist Metal Barcode Nameplates are ideal for customers who require permanent nameplates to stand up in moderate to harsh environments. Black copy, logos, and barcodes are photographically reproduced for maximum clarity and detail and then sealed within the anodic layer of the aluminum. Color options are available for company logos, copy or design. Optional second colors are digitally inkjet printed.

Paint-Resist Metal Barcode Nameplates come with a standard adhesive that bonds extremely well to plastic or powder-coated

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metal surfaces and while also bonding to bare metal. This product is also available with optional holes for mechanical fasteners.

Specifications Data

Material	.008” thick matte anodized aluminum is standard. Optional thicknesses include: .012”, .020”, .032”, and .063”.
Serialization	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, 2D DataMatrix and QR Code.
Label Copy	Printed copy may include block type, stylized type, logos or other designs. 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, purple, orange, dark blue 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. Color samples available upon request.
Standard Adhesive	Pressure-sensitive acrylic adhesive; excellent bond to unpainted metal surfaces such as aluminum and stainless steel as well as glass surfaces. Will withstand temperatures from -40°F to 400°F (intermittent). Shelf life of 24 months when stored at 72°F (22°C) and 50% relative humidity.
Sizes	Various sizes available
Holes	2" x .625"; 2" x 1"; 2.5" x .75"
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 a roller, cleaner, and application instructions.
Shipment	7-8 business days

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Chemical Testing

Chemical Test Data

Characteristics	Test conditions	Effect
Water/Humidity		
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	72 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
Turbine and jet fuel (MIL-L 5161C)	(MIL-L 5161C)	no effect
Tetra sodium pyrophosphate	1%, 40 hours	no effect
trisodium phosphate		no effect

Destructive Testing

Destructive Test Data

Image intensified	Plates brushed for 7000 cycles with stiff nylon wheel (C-17) at a 1000 gm (16 ox.) load	Reduced overall readability after these thresholds

Temperature Testing

Temperature Test Data

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

Read Range Testing

Read Range Test Data

Barcode Readability Testing

Barcode Readability Test Data

Abrasion Testing

Abrasion Test Data

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

Label Adhesion Testing

Label Adhesion Test Data

Pull Testing

Pull Test Data
