

Foil InfoDot™ Bar Code Labels Specifications

Material: .003" thick matte anodized aluminum.

Bar Codes: All alphanumeric DataMatrix codes are photo imaged with a human-readable equivalent. Guaranteed no skips in sequence. Standard symbology is 2D DataMatrix ECC200, which includes the full set of ASCII characters. DataMatrix is a highly redundant bar code and is still readable if up to 60% of the bar code is destroyed.

Label Copy: The label copy may include bar code and human-readable equivalent.

Colors: Choose black copy with silver background or silver copy with black background.

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

Standard Sizes: 3/8" diameter

Adhesive: .002" thick pressure-sensitive acrylic adhesive (MC60) - very high bond, high performance adhesive including excellent resistance to heat and chemicals; optional .002" thick silicone Densil adhesive available for high temperature applications.

Packaging: Shipped 100 per sheet. Cartons are clearly marked to indicate serial numbers of contents. Pressure-sensitive adhesive orders are shipped with application tool and instructions.

Shipment: 10 work days.

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

Foil InfoDot™ Bar Code Labels



Like its predecessor the InfoDot™, the Foil InfoDot™ is an ideal identification solution for small parts tracking. Whereas the standard InfoDot™ performs best in acidic or caustic environments, the new Foil InfoDot™ specializes in more extreme conditions where abrasion and high temperatures may be an issue.

The 2D DataMatrix ECC200 bar code symbology allows you to identify and track property as well as record calibration and maintenance information in one-tenth the space of traditional bar codes.

Made of a resilient photo anodized aluminum, the Foil InfoDot™ Bar Code Label resists abrasion, solvents, sun, salt air, and high temperatures while the bar code and human-readable is sealed within the anodic layer of the aluminum to protect readability.

An image intensification process ensures the bar code will read every time even when exposed to damaging UV rays and high temperatures. Plus, because of the high redundancy within the DataMatrix bar code symbology, the bar code is still readable if as much as 60% of the image is destroyed.

Key Product Features

- Small size makes label unobtrusive
- Photo anodized aluminum resists abrasion, solvents, sun, salt air, and high temperatures
- DataMatrix symbology utilizes only one-tenth the space of traditional bar codes
- High redundancy in DataMatrix symbology means bar code will still read if as much as 60% of the image is destroyed

Not sure what product you need?

Call our trained Experts!

800-437-5283



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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 Foil InfoDot™ is produced using an image intensification process on the photo anodized

aluminum which results in higher product performance in heat and ultraviolet conditions.

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
Image Intensified Photo Anodized	265 hours 500°F 90 hours 600°F 60 hours 700°F	Dark reflectance is reduced at these thresholds. This can affect readability.*

Ultraviolet Exposure Tests

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

Abrasion Tests

Product Tested	Test Conditions	Effect on Readability
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.