



Foil Barcode Labels

PHOTO ANODIZED PRODUCT LINE

Our flexible Foil Barcode Labels conform to surfaces while withstanding chemicals, abrasion, solvents and high temperatures. Foil Barcode Labels are available with or without a barcode. Black copy, logos and barcodes 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 digitally inkjet printed.

Material and Design Specifications

- .003" (0.08 mm) thick matte anodized aluminum is standard. Option of .005" (0.13 mm) available
- Various sizes are available
- 0.002" (0.051 mm) pressure-sensitive acrylic adhesive is standard
- Optional adhesive thicknesses range from 0.0008" (0.02 mm) to 0.005" (0.13 mm)
- Adhesive shelf life of 24 months when stored at 72 °F (22 °C) and 50% relative humidity
- Pressure-sensitive adhesive orders are shipped with a roller, cleaner and application instructions. Roller is recommended when applying nameplates

Technical Specifications

- All alphanumeric barcodes are photo imaged with human-readable equivalent to guarantee no skips in sequence.
- Code 39 with 2.7 to 9.4 characters per inch (CPI) is standard.
- Other barcode symbologies include Code 128, I 2 of 5, 2D DataMatrix and QR Code. OCR characters and CPIs also available.

Key Features

- NEW! CMYK color matching now available for Foil Barcode Labels at NO ADDITIONAL CHARGE!
- Photographically reproduced black copy, logos and barcodes ensure accurate and reliable reads
- Anodizing process protects black copy, logos and barcodes from chemicals, abrasion and high temperatures
- Adhesive specially matched to surface for maximum adhesion
- Optional intensification process increases heat resistance and improves the image resistance for other environmental conditions

Applications

- Asset Tracking
- Tool Tracking
- Work-in-Process
- Product Identification

Environmental Specifications

- Minimum Application Temperature +50 °F (10 °C)
- Temperature Range: -40 °F to +500 °F (-40 to +260 °C) - adhesive dependent
- UV Resistance: Up to 20 years on black copy, up to 5 years on all other colors
- Chemical Resistance: Excellent resistance to solvents and oils, combustible and flammable chemicals and a wide variety of cleaners

Test Results

These tests were conducted for a limited period in strict laboratory conditions. To achieve maximum satisfaction, we highly recommend any customer considering use of this product test the tags in the environment in which they will be used.

Chemical Resistance: Metal Barcode Tags immersed in ambient room temperature conditions with inspection at time intervals noted below. NE = No Effect

Characteristics	Test Conditions	Effect
Water/Humidity		NE
Salt Spray	5% at 95 °F, 700 hours	NE
Ammonium Hydroxide	2 hours at 1% and 5%	Slight dulling of image, affects overall readability
Ethyl alcohol		NE
Ethyl acetate	24 hours	NE
Ferric chloride	10%, 16 hours	NE
Heptane	72 hours	NE
Hydrocarbon fluid		NE
JP-4 Fuel		NE
Kerosene		NE
Methyl Ethyl Ketone		NE
Nitric acid	1%, 40 hours	NE
Phosphoric acid	1% 40 hours	NE
Skydrol		NE
Sodium hydroxide		Affects overall readability
Sulfuric acid	10%, 24 hours	NE
Turbine and jet fuel (MIL-L 5161C)	(MIL-L 5161C)	NE
Tetra Sodium Pyrophosphate	1%, 40 hours	NE
Trisodium Phosphate		NE

Destructive Test Data

Image Intensified	Weatherometer, 20 years equivalent	Reduced overall readability after these thresholds
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Temperature Test Data

Image Intensified	265 hrs. at 500 °F, 90 hrs. at 600 °F, 60 hrs. at 700 °F	Reduced overall readability after these thresholds
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Abrasion Test Data

Image Intensified	Plates brushed for 7000 cycles with stiff nylon wheel (CS-17) at a 1000 gram (35.3 oz.) load	Reduced overall readability after these thresholds
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Installation Instructions

- Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc, debris that may affect adhesion.
- Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
- Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
- Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive sealing.

Industry Compliance

