



Durability, reliability, and versatility – all in one product! Foil Bar Code Labels are ideal for customers who require a flexible label that will conform to most surfaces, yet need a product that will withstand harsh conditions including chemicals, abrasion, solvents, and high temperatures.

Foil Bar Code Labels are available with or without a bar code. 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.

This product is just as effective in the office of a manufacturing plant as it is on the production floor. Uses and applications for this product are limited only by the customer's imagination and with approximately 200 die sizes, chances are very likely we will have just the size you need. From tool control to calibration to original equipment identification, Foil Bar Code Labels are more than up to the challenge.

## Features

Conforms easily to radius surfaces  
Photographically reproduced black copy, logos and bar codes ensure accurate and reliable reads  
Anodizing process protects black copy, logos and bar codes from chemicals, abrasion and high temperatures  
Adhesives specially matched to surface for maximum adhesion  
Nearly 200 sizes means no extra tooling charge

## Product Print Options

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

## Product Functionality

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

## Popular Applications

Audio / Visual . Government . Inventory . Marine . Oil & Gas . Restoration . Supply Chain . Transportation / Logistics . Utilities . Warehouse / Distribution Centers . Wineries / Breweries . Churches . Construction / Tool Tracking . Hospitals . IT Assets . Manufacturing . Schools

## Category

Metal Asset Tags

## Specifications Data

<b>Material</b>	<b>.003" thick matte anodized aluminum is standard. .005" thick matte anodized aluminum is optional.</b>
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	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, dark blue, orange, purple 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	.002" thick pressure-sensitive acrylic adhesive. Very high peel strength that provides excellent resistance to heat and chemicals. Will withstand temperatures from -40°F to 300°F (intermittent). Shelf life of 24 months when stored at 72°F (22°C) and 50% relative humidity.
Sizes	1.25 x .5; 1.5 x .75; 1.75" x .5; 2" x .625" 2" x 1"; 2" x .75"
Packaging	Shipped in peel-off strips for easy removal. 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	5-8 business days

## Chemical Testing

### Chemical Test Data

Characteristics	Test Conditions	Effect
Water/humidity		no effect
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	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)	(MIL-L 5161C)	no effect
Tetra Sodium Pyrophosphate	1%, 40 hours	no effect
Trisodium Phosphate		no effect

## Destructive Testing

A label with an intensified image was tested in a weatherometer, 20 years equivalent; reduced overall readability after these thresholds

## Abrasion Testing

A plate with an intensified image was 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