

High Temperature Metal Barcode Tags



Made of durable anodized aluminum, idtracon's High Temperature Metal Barcode Tags are ideal for applications with temperature requirements from 482°C-650°C. In addition, these tags have many of the same benefits that our standard metal bar code tags-including an image that is sealed within the anodic layer of the aluminum protecting it from abrasion, solvents and chemicals.

Features

Unique coating process that increases temperature range to 650°C
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

Product Print Options

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

Product Functionality

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

Popular Applications

Oil & Gas . Manufacturing

Category

Manufacturing . Utilities . Asset Tracking . Work-in-Process . Metal Barcode Nameplates . High Temperature Metal Tags

High Temperature Metal Barcode Tags

Specifications Data

Material .008" thick matte anodized aluminum is standard. Optional thicknesses include: .012", .020", and .032".

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. OCR characters and CPIs also available.

Label Copy The printed nameplate copy is block type only. No stylized type, logos or other designs available. All copy is photo imaged.

Colors Available in black only

Sizes Various sizes available

Holes Various sizes available

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.

Shipment 20-25 business days

Chemical Testing

Chemical Test Data

Characteristics	Test conditions	Effect
Water/humidity		no effect
Salt spray	5% at 35°C, 700 hours	no effect
Ammonium hydroxide	2 hours at 1% and 5%	Slight dulling of image, affects overall readability
Ethyl alcohol	72 hour immersion	no effect
Ethyl acetate	24 hour immersion	no effect
Ferric chloride	10%, 16 hours	no effect
Heptane	72 hours	no effect
Hydrocarbon fluid	1 hour immersion	no effect
JP-4 fuel	72 hour immersion	no effect
Kerosene	12 hour immersion	no effect
Methyl ethyl ketone	24 hour immersion	no effect
Nitric acid	1%, 40 hours	no effect
Phosphoric acid	1%, 12 hours	no effect
Skydrol	24 hr immersion (room temp & boiling)	no effect
Sodium hydroxide	1%, 1 hour	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	1%, 40 hours	no effect

Destructive Testing

Destructive Test Data

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

Temperature Testing

Temperature Test Data

Image intensified

168 hours at 538°C; max temp 650°C

Reduced overall readability after these thresholds

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 oz.) load

Reduced overall readability after these thresholds
