

# High Temp Metal Barcode Nameplates



## Features

Unique coating process that increases temperature range to 1200°F  
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

Metalcraft's High Temperature Metal Barcode Nameplates are ideal for temperatures from 900°F - 1200°F.

Our High Temperature Metal Barcode Labels are made of anodized aluminum, so they have many of the same benefits that our standard Metal Barcode Tags do – including an image sealed within the anodic layer of the aluminum. This protects it from abrasion, solvents and chemicals.

These unique nameplates are an economical alternative to other more expensive high temperature materials such as ceramic and stainless steel. Potential applications include work-in-process tracking or product identification. Due to the high temperatures this product is exposed to, adhesives are not recommended, rather the nameplates should be produced with holes and attached with mechanical fasteners.

# High Temp Metal Barcode Nameplates

## 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

# High Temp Metal Barcode Nameplates

## 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	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 1000°F; max temp 1200°F

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

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