

High Temperature Metal Bar Code Nameplates Specifications

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

Bar Codes: 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 and DataMatrix as well as OCR characters and CPIs 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: Black only.

Finish: All black copy and bar codes are sealed in an anodic layer to resist defacing, abrasion and environmental conditions. Special coating resists temperatures up to 1200°F.

Sizes: Send e-mail to metalcraft@idplate.com, fax request to 641-423-8898 or call 800-437-5283 and ask for customer service.

Adhesive: Mechanical fasteners are recommended. Standard hole diameters include: 3/32", 3/16", and 1/8". Contact Metalcraft for additional dimensions. A 1/4" quiet zone must be allowed at the beginning and end of the bar code inside the mechanical fastener area.

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 work days.

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

High Temperature Metal Bar Code Nameplates



Metalcraft High Temperature Metal Bar Code Nameplates can really take the heat. Made of durable anodized aluminum, these nameplates are ideal for applications with temperature requirements from 900°F-1200°F. And because it is made out of anodized aluminum our High Temperature Metal Bar Code Nameplates have many of the same benefits that our standard metal bar code nameplates do including an image that is sealed within the anodic layer of the aluminum protecting 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. Possible uses 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.

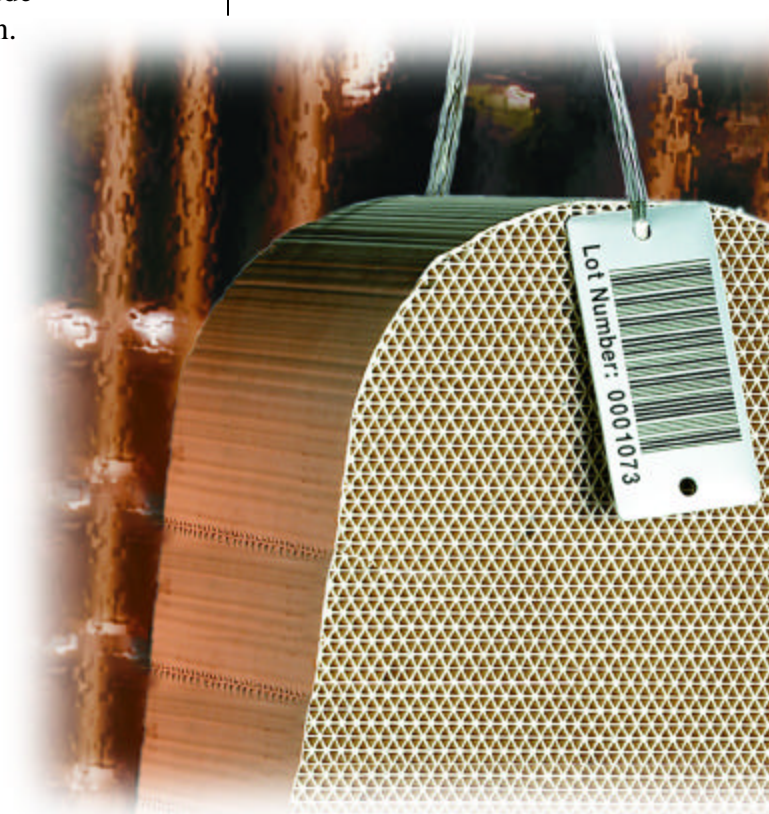
Key Product Features

- 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

Not sure what product you need?

Call our trained Experts!

800-437-5283



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High Temperature Metal Bar Code Nameplates Performance Information

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 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 |
|----------------|--------------------|
| XHT Enhanced | 168 hours @ 1000°F |
| Photo Anodized | |

Ultraviolet Exposure Tests

| Test Conditions | Effect on Readability |
|------------------------------------|--|
| Weatherometer, 20 years equivalent | Reduced overall readability after these thresholds.* |

Abrasion Tests

| Test Conditions | Effect on Readability |
|--|--|
| Plates were brushed for 7000 cycles with a stiff nylon wheel (C-17) at a 1000g (16 oz.) load | Reduced overall readability after these thresholds.* |

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.