

High Temperature PRODUCT LINE

Metalcraft's High Temperature Identification Products can really take the heat. For applications with extreme heat (700° F to 1200° F), we offer High Temperature Metal Barcode Nameplates. For applications with temperatures to 700° F, we offer Teflon® Coated Metal Barcode Nameplates.

In addition to surviving high temperatures both these products are produced using a photo imaging process that seals images within the sapphire-hard anodic layer of the aluminum which resists chemicals, abrasion and dirt. Unlike surface printed products, photo anodized nameplates and labels offer durability even in the most extreme environments, plus with a special intensification process, they can last outside for over 20 years.

Products



High Temperature Metal
Barcode Nameplates



Teflon® Coated Metal
Barcode Nameplates

Applications

- Asset Tracking
- Work-in-Process

Specifications

Product	Material	Adhesive	Lead Time
High Temperature Metal Barcode Nameplates	.016" anodized aluminum (additional thicknesses available)	Closed cell polyethylene foam adhesive	8-10 workdays
Teflon® Coated Metal Barcode Nameplates	.012" anodized aluminum (additional thicknesses available)	.0035" low surface energy pressure sensitive adhesive	20-25 workdays



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 labels in the environment in which they will be used.

These results hold true for all photo anodized products listed on this sheet.

Product Data	Value	Test Method
Exterior Exposure	No Effect	Intensified photo anodized image exceeds 400 hr. Weatherometer est GG-P-455b, estimated equivalent to 20 yr. exposure
Abrasion Resistance	Slight dulling of surface	Taber Abraser with CS17 wheel, a total of 1000 g load 7000 cycles
Temperature Resistance	1,000 ° F	24 Hours of Oven Exposure
Salt Spray	No Corrosion	5% at 95 ° F for 700 hours
Chemical Resistance		
MIL-S-3136 111 Hydrocarbon Fluid	No Effect	1 hour immersion
MIL-L-5161C-Turbine and jet	No Effect	1 hour immersion
JP-4 Fuel	No Effect	72-hour immersion
Kerosene	No Effect	12-hour immersion
Skydrol (Hydraulic Fluid)	No Effect	24-hour immersion at both room temp and boiling point
Methyl Ethyl Ketone (MEK)	No Effect	24-hour immersion
Ethyl Acetate	No Effect	24-hour immersion
Xylol	No Effect	72-hour immersion
Heptane	No Effect	72-hour immersion
Ethyl Alcohol	No Effect	72-hour immersion
Ferric Chloride	No Effect	72-hour immersion
Ammonium Hydroxide	Slight Dulling	10% solution, 16-hour immersion
MIL-P-21563 soap solution	No Effect	16-hour immersion
MIL-C-25179 AIN in heptane	No Effect	25% solution, 1 min. immersion (cleaning solution)
Sulfuric Acid	No Effect	10% solution, 24-hour immersion
Phosphoric Acid	No Effect	1% solution, 12-hour immersion
Nitric Acid	No Effect	3% solution, 72-hour immersion
TSP (Trisodium Phosphate)	No Effect	1% solution, 40-hour immersion
Sodium Hydroxide	Not Recommended (surface attack)	1% solution, 1-hour immersion

