IUID Metal Nameplates

PHOTO ANODIZED PRODUCT LINE

Our Photo Anodized Aluminum IUID Plates provide excellent durability and barcode readability, making them the ideal choice for a wide range of outdoor and industrial applications. Metalphoto® anodized aluminum IUID plates provide excellent durability and barcode readability, making them the ideal choice for a wide range of Item Unique Identification (IUID) applications. For flexible photo-anodized aluminum labels, black text and barcodes are reproduced on a matte surface, ensuring good printability and accurate scan reads.

Material and Design Specifications

- Metal - .008" thick matte anodized aluminum is standard. Foil - .003" thick matte anodized aluminum is standard.
- Optional thicknesses include .012" (0.31 mm), .020" (0.51 mm), .032" (0.82 mm) and .063" (1.61 mm) thick matte anodized aluminum for metal and .005" (0.13 mm) thick matte anodized aluminum for foil.
- Standard adhesive: 0.0035" (0.089mm) pressure sensitive adhesive with a very high peel strength and excellent resistance to heat and chemicals.
- Pressure-sensitive adhesive orders are shipped with a roller, cleaner and application instructions. Roller is recommended when applying nameplates
- Adhesive shelf life of 24 months when stored at 72 °F (22 °C) and 50% relative humidity
- Sizes: Up to 500 sizes available
- Optional holes for mechanical fasteners

Key Features

- Metalphoto® material meets a wide array of commercial, government and military specifications
- Photographically reproduced black copy, logos and barcodes from chemicals, abrasion and high temperatures
- Earned more top scores than any other IUID barcode label material tested by the U.S. Navy.
- Notable certifications include: MIL-STD-130N, STANAG 2290, GGP-455B(3) Type I, MIL-DTL-15024F, MIL-P-19834B and A-A-50271
- Expertise in working with IUID spec from an established company with a reputation for durable and reliable products
- Anodizing process protects black copy, logos and barcodes from chemicals, abrasion and high temperatures
- Optional intensification process increases heat resistance and improves the image resistance for other environmental conditions

Applications

- Asset Tracking
- Government/Military
- Outdoor/Industrial

Environmental Specifications

- Minimum Application Temperature -20 °F (-28.9 °C) or +50 °F (+10 °C) - adhesive dependent
- Temperature Range: -40 °F to +500 °F (-40 to +260 °C) - adhesive dependent
- UV Resistance: Up to 20 years
- Chemical Resistance: Excellent resistance to solvents and oils, combustible and flammable chemicals and a wide variety of cleaners

METAL CRAFT
ID MADE BETTER®

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 tags in the environment in which they will be used.

Chemical Resistance: IUID Metal Nameplates immersed in ambient room temperature conditions with inspection at time intervals noted below. NE = No Effect		
Characteristics	Test Conditions	Effect
Water/Humidity		NE
Salt Spray	5% at 95 °F (35 °C), 700 hours	Slight dulling of image, affects overall readability
Ethyl alcohol		NE
Ethyl acetate	24 hours	NE
Ferric chloride	10%, 16 hours	NE
Heptane	72 hours	NE
Hydrocarbon fluid		NE
JP-4 Fuel		NE
Kerosene		NE
Methyl Ethyl Ketone		NE
Nitric acid	1%, 40 hours	NE
Phosphoric acid	1% 40 hours	NE
Skydrol		NE
Sodium hydroxide		Affects overall readability
Sulfuric acid	10%, 24 hours	NE
Turbine and jet fuel (MIL-L 5161C)	(MIL-L 5161C)	NE
Tetra Sodium Pyrophosphate	1%, 40 hours	NE
Trisodium Phosphate		NE
Ammonium Hydroxide	2 hrs. at 1% and 5%	Slight dulling of image, affects overall readability

Abrasion Test Data		
Image Intensified	Plates brushed for 7000 cycles with stiff nylon wheel (CS-17) at a 1000 gram (35.3 oz.) load	Reduced overall readability after these thresholds

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

Temperature Test Data		
Image Intensified	265 hrs. at 500 °F, 90 hrs. at 600 °F, 60 hrs. at 700 °F	Reduced overall readability after these thresholds

Installation Instructions

1. Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc, debris that may affect adhesion.
2. Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
3. Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
4. Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive sealing.

Industry Compliance

RoHS 2002/95/EC

REACH