

Introduction

Our sub-surface print process is the key to our durability. Weather-proof, heat, solvent and scratch resistant images sealed in anodised aluminium. Exceptionally durable, widely specified, always readable. Our anodised aluminium products are tough labels made for tough places. Metal Image have been the leaders in Durable Product Identification for almost four decades. We are proud of what we do, enjoy what we do, and we're good at it.

Anodised Aluminium Applications

- Asset tracking labels and tags.
- Compliance and rating plates.
- Nameplates and serial labels.
- Control fascia, mimic panels.
- Branding, promotional and point of sale products.
- Heritage and commemorative plaques.

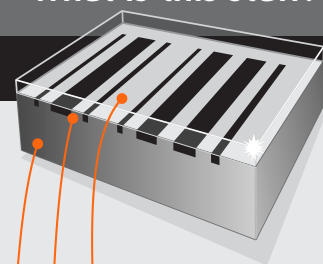
Metalphoto

Metalphoto Performance Characteristics - 1100 SERIES ALLOY

Meets many DoD requirements including MIL-STD-130N, GGP-455B, MIL-A-8625F and MIL-DTL-15024F

Characteristic	Result
Abrasion Resistance	No pronounced image loss, degradation or reduced readability after 7000 cycles on an abrading wheel.
Acid Corrosion	No deterioration or image degradation after 24 hours in 3% nitric acid.
Heat Resistance	No legibility loss or degradation when subjected to 316°C/427°C with UV boost.
Salt Spray Corrosion	No deleterious effect after a 720-hr salt spray (fog) test. 2,6 "Very Good" corrosion resistance after 113 days seawater exposure.
Accelerated Light and Weather Resistance	No pronounced deterioration of legibility after 400-hr carbon arc weatherometer exposure.
Accelerated Oxygen Aging	No discoloration or fading after 96-hr/300 psi/ 70°C oxygen bomb aging
Stain Resistance	No black fading when plates are exposed to tincture of iodine.
Cleaning Resistance	No deleterious effects when tested with alkaline cleaners (MILC-87937 or equivalent) for aircraft surfaces.
Low Temperature Resistance	No deleterious effect or image fade after 1 hour at -45°C. No impairment of legibility upon exposure at -67°F.
Organic Solvent Resistance	No softening, staining or noticeable fade after 24-hr exposure to: JP-4 fuel, Gasoline, Mineral Spirits, Methyl Ethyl Ketone, Turpentine, Turbine & Jet Fuel, Kerosene, Xylol, Acetone, Toluol, Heptane, Trichlorethylene, MIL-H-5606 Hydraulic Fluid and MIL-L-7808 Jet Engine Oil.
Fungus Resistance	Visual reading of "0" per ASTM-G21.
Thermal Shock	No deterioration after 3 cycles between -65°C and 125°C
Moisture Resistance	No deterioration after 10 humidity cycles per MIL-STD-202, method 106.

Anodised Aluminium. What is this stuff?



Anodic Layer

The glass-clear, sapphire-hard anodised layer resists chemicals, paint, abrasion and dirt.

Sealed Image

The printed graphics are trapped deep in the pores of the anodised aluminium.

Base Aluminium Layer

The corrosion resistant aluminium base will not peel, crack or delaminate.

Industry Specifications & Case Studies

Boeing Commercial Aircraft Company

Boeing Process Specification BAC5875
Fabrication of Aluminum Markers, Instrument Panels, Drawer Front Panels and Fabrication of Metal and Plastic Appliques

Department of Navy

Laboratory evaluation of label plate materials and attachment methods considered for use on LPD-17 CARDIVNSWC-TR-62-00-05 June 2000

NASA, Johnson Space Center, Texas

Space Station Inventory Label Specification - SSP 50007

Department of Defense

MIL-A-8625F
Anodic Coatings for Aluminum & Aluminum Alloys
Type II Class 1 (unprocessed or clear)
Class 2 (processed)