**Panels & Dials**
Available in thicknesses to .125”
In matte, satin or #4 brushed finish
Resists most chemicals and solvents

**Data Plates/Schematics**
Ideal for detailed schematics or data plates
Resistant to abrasion, heat and corrosion

**Bar Code Labels**
Meets UID requirements of MIL-STD-130
Labels won’t fade, scratch or delaminate

**Shipboard Markings**
Metalphoto was first used in 1958
Recent Navy study: "Metalphoto label plates provide the highest degree of performance."

---

**Torture This!**
Metalphoto anodized aluminum nameplates and panels are practically indestructible. Graphics are permanently embedded in the aluminum and are resistant to the following harsh conditions:

- **Extreme ultraviolet exposure**
- **Temperatures exceeding 700°**
- **Salt spray**
- **Gasoline, jet fuels, hydraulic fluids, chemicals and solvents**
- **Abrasion**

**Call us today at**
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Metalphoto will measure up to your toughest requirements.
Permanent Metal Markings for Bar Codes, Data Plates, Control Panels and Foil Labels

20 Years Outdoor Durable
Resistant to Sunlight, Wind, Water and Saltwater
Withstands Chemicals, Fire, Rust and Abrasion

U.S. Government Specifications & Studies
Department of Defense
Commercial Item Description
A-A-50271 Class 2 - Composition C

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

Departments of Defense
MIL-STD-13231
Standard Practice
Marking of Electronic Items

Department of Defense
MIL-DTL-19024F
Identification of Equipment
Type C - Foil - Type H - Plate

Department of Defense
MIL-STD-130L
Identification Marking of U.S. Military Property

Department of Defense
MIL-P-19834B
General Specification for Plates
Identification or Instruction, Metal Foil, Adhesive Backed

Department of Navy
Laboratory evaluation of label plate materials and attachment methods considered for use on LPD-17
CARDSTN/SWC-TR-62-00-05 June 2000

NASA, Johnson Space Center Texas
Space Station Inventory Label Specification - SSP 930027

United States Federal Government
Federal Specification GPG-455R(5)
Type I (Grade A&B) Class 1 or 2

Industry Specifications & Studies
BF Goodrich Aerospace
Data Systems Division
Specification SMTD022

Boeing Commercial Aircraft Company
Boeing Process Specification SACS75
Fabrication of Aluminum Markers, Instrument Panels, Drawer Front Panels and Fabrication of Metal & Plastic Appliques

Honeywell, Inc.
Satellite Systems Operations
Metalphoto approved for use on Space Station
Memorandum A3-J024-M-9501786
Laboratory Case 161311

Norwegian Marine Technology
Research Institute (Marintek)
Corrosion test of anodized aluminum plates
23.1011.00.0391

SAE Technical Paper Series 2000-01-2437
Special requirements for Crew Interface Labels on the International Space Station
Stephen Gray & Fernando Ramos - Boeing

UL & CSA
Canadian Standard Association (CSA)
File 11133-1, Class 7991

Underwriter Laboratories
Marking and Labeling Systems PCDQ2
Marking and Labeling System Material Component PGI/2U-MH28206

metalphoto® Performance Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abrasion Resistance</td>
<td>No pronounced image loss, degradation, or reduced readability after 7000 cycles of an abrading wheel.</td>
</tr>
<tr>
<td>Acid Corrosion</td>
<td>No deterioration or image degradation after 24 hours in 3% nitric acid.</td>
</tr>
<tr>
<td>Heat Resistance</td>
<td>No legibility loss or degradation when subjected to 1000°F.</td>
</tr>
<tr>
<td>Salt Spray Corrosion</td>
<td>No deleterious effect after a 720-hour salt spray (fog) test. 2.6 “Very good” corrosion resistance after 113 days seawater exposure.</td>
</tr>
<tr>
<td>Accelerated Light and Weather Resistance</td>
<td>No pronounced deterioration of legibility after 400-hour carbon arc weatherometer exposure.</td>
</tr>
<tr>
<td>Accelerated Oxygen Aging</td>
<td>No discoloration or fading after 96-hour/300 psi/71°C oxygen bomb aging.</td>
</tr>
<tr>
<td>Stain Resistance</td>
<td>No black fading when plates are exposed to tincture of iodine.</td>
</tr>
<tr>
<td>Cleaning Resistance</td>
<td>No deleterious effects when tested with alkaline cleaners (MIL-C-87937 or equivalent) for aircraft surfaces.</td>
</tr>
<tr>
<td>Low Temperature Resistance</td>
<td>No deleterious effect or image fade after 1 hour at -50°F. No impairment of legibility upon exposure at -67°F.</td>
</tr>
<tr>
<td>Organic Solvent Resistance</td>
<td>No softening, staining, or noticeable fade after 24-hour exposure to: JP-4 fuel, Carbon, Mineral spirits, Methyl ethyl ketone, Turpenine, Turpentine &amp; jet fuel, Kerosene, Xylol, Acetone, Toluol, Heptane, Trichlorethylene, MIL - H-5606 hydraulic fluid, and MIL-L-7808 jet engine oil</td>
</tr>
<tr>
<td>Fungus Resistance</td>
<td>Visual reading of “0” per ASTM-G21.</td>
</tr>
<tr>
<td>Thermal Shock</td>
<td>No deterioration after 3 cycles between -65°C and 125°C.</td>
</tr>
</tbody>
</table>

...and many more companies, large and small