



CodeFacts

AIDC (Automated Identification and Data Collection) Technical & Informational Documents
Written for Everyone

Anodized Aluminum Bar Code Labels & Tags Performance Characteristics

| Characteristic | Test Condition | Effect |
|-------------------------------------|--|----------------|
| Exterior Exposure | Exceeds 400 hour Weatherometer test GG-P-455B estimated equivalent to 20 years outdoor exposure | No effect |
| Abrasion Resistance | Taber Abraser with CS17 wheel, 1000g load for 7,000 cycles | Slight dulling |
| Temperature Resistance | 1,000°F (583°C) | No effect |
| Salt Spray | 5% at 95°F (35°C) for 700 hours | No corrosion |
| Chemical Resistance | | |
| MIL-S-3136 111 Hydrocarbon Fluid | 1 hour immersion | No effect |
| MIL-L-516C Jet Fuel | 1 hour immersion | No effect |
| JP-4 Fuel | 72 hour immersion | No effect |
| Kerosene | 12 hour immersion | No effect |
| Hydraulic Fluid | 24 hour immersion at boiling point | No effect |
| Methyl Ethyl Ketone | 24 hour immersion | No effect |
| Ethyl Acetate | 24 hour immersion | No effect |
| Xyol | 72 hour immersion | No effect |

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|------------------------------|----------------------------------|----------------|
| Heptane | 72 hour immersion | No effect |
| Ethyl Alcohol | 72 hour immersion | No effect |
| Ferric Chloride 10% Solution | 16 hour immersion | No effect |
| Ammonium Hydroxide 10% | 16 hour immersion | Slight dulling |
| MIL-P-21563 Soap Solution | 16 hour immersion | No effect |
| Sulfuric Acid 10% Solution | 24 hour immersion | No effect |
| Phosphoric Acid 1% Solution | 12 hour immersion | No effect |
| Nitric Acid 3% Solution | 72 hour immersion | No effect |
| Trisodium Phosphate (TSP) | 1% solution, 40 hour immersion | No effect |
| MIL-C-25179 AIN in Heptane | 25% solution, 1 minute immersion | No effect |

Teflon Coatings

| Characteristic | Test Condition | Effect |
|----------------------------|---|---------------|
| Release Properties | Resists adhesion of various paints and coatings | |
| Temperature Resistance | Serviceable to 350°F (135°C) | |
| Chemical Resistance | | |
| Hydrochloric Acid 100% | 1 hour immersion | No effect |
| Hydrofluoric Acid 100% | 1 hour immersion | No effect |
| Sodium Hydroxide 80% | 1 hour immersion | No effect |
| Trichlorethylene | 1 hour immersion | No effect |
| Toluene | 1 hour immersion | No effect |
| Salt Spray | 5% at 95°F (35°C) for 700 hours | No corrosion |

