

Material Guide Enameled Aluminum



Enameled aluminum refers to aluminum that has been coated with a layer of enamel, which is typically a vitreous (glass-like) or synthetic resin-based coating. This process gives the metal a smooth, colorful, and durable finish that offers both aesthetic and protective qualities.

CHARACTERISTICS of ENAMELED ALUMINUM:

- **Aesthetic Appeal:**
 - Bright, glossy finish: Available in a wide variety of colors and finishes (matte, satin, gloss).
 - Smooth texture: Creates a sleek, uniform surface ideal for decorative uses.
 - Color retention: High-quality enamel resists UV fading and maintains color over time.
- **Protection & Durability:**
 - Corrosion resistance: Protects aluminum from moisture, chemicals, and oxidation.
 - Scratch resistance: Provides a durable surface but generally less hard than anodized aluminum.
 - Weatherproof: Good for indoor and some outdoor uses, depending on the type of enamel used.
- **Non-reactive Surface:**
 - Safe for food-contact surfaces (e.g., cookware, appliances) if using food-grade enamel.
 - Easy to clean due to its non-porous finish.

APPLICATIONS for ENAMELED ALUMINUM:

- **Signage & Identification:**
 - Office and Building signs
 - Room number, nameplates, restroom signs
 - Architectural signage, for hallways, lobbies
- **Safety & Compliance Labels:**
 - Warning and instruction plates
 - Equipment operation plates
 - Fire safety tags for extinguishers and alarms
 - Emergency instruction plates
- **Equipment & Product Labeling:**
 - Machine nameplates, logos, part numbers, specs
 - Control panel tags, switch functions or instructions
 - Appliance branding tags, service and logo branding
- **Awards & Recognition:**
 - Trophy plates
 - Nameplates for awards and plaques
 - Commemorative tags
- **Decorative and Custom Tags:**
 - Personalized keychains and luggage tags
 - Jewelry tags, branded product plates
 - Promotional tags, Company-branded tags

**Contact us today to quote your
Enameled Aluminum Project**

Toll Free: 1-800-451-3330

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BENEFITS of ENAMELED ALUMINUM:

- **Attractive Appearance:**
 - Vibrant colors and finishes: Offers a wide range of glossy, satin, or matte colors.
 - Smooth, uniform surface: Ideal for decorative applications, signage, and consumer products.
 - Color stability: High-quality enamel resists fading from sunlight and aging.
- **Protection & Durability:**
 - Corrosion resistance: The enamel layer shields the aluminum from moisture, chemicals, and oxidation.
 - Scratch & wear resistance: While not as hard as anodizing, enamel still provides a durable, protective surface.
 - Weather resistance: Suitable for many indoor and some outdoor environments, depending on the enamel type.
- **Easy to Clean:**
 - Non-porous surface: Dirt, grease, and stains can be wiped away easily.
- **Electrical Insulation:**
 - Non-conductive coating: Enamel provides an insulating barrier, making it useful in some electrical or appliance applications.
- **Environmentally Friendly:**
 - Long-lasting finish: Reduces the need for frequent repainting or replacement.
 - Low maintenance: Doesn't require harsh chemicals to stay clean and intact.



ALUMINUM COLOR OPTIONS



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