

Material Guide AlumaMark



AlumaMark is a specialized type of anodized aluminum that is designed specifically for high-resolution laser marking. It allows you to create detailed, photo-quality images, barcodes, text, and graphics directly on the surface without removing the anodized layer. Unlike traditional anodized aluminum, which typically requires engraving or dyeing, AlumaMark reacts with a CO₂ laser to create permanent black marks.

CHARACTERISTICS of ALUMAMARK:

- **Laser-Markable Surface:**
 - Designed to work with CO₂ lasers, which darken the material without engraving it.
 - The result is a rich black mark that contrasts strongly with the base (silver, gold, bronze, etc.).
 - Supports fine detail, including small fonts, logos, and even grayscale images like photographs.
- **Durable Anodized Layer:**
 - Retains the protective anodized coating, so the metal remains corrosion- and wear-resistant.
 - Marking happens within the anodized layer — no need to remove it to create contrast.
- **No Inks or Fillers Needed:**
 - Marking is achieved chemically via the heat of the laser.
 - No post-processing, paints, or chemical treatments required.



APPLICATIONS for ALUMAMARK:

- **Asset & Inventory Tags:**
 - Marked with barcodes, serial numbers, or QR codes
 - Used for equipment tracking, IT asset management, or logistics
 - High contrast and detail make scanning reliable, even on small tags
- **Machine & Equipment Nameplates:**
 - Plates with Model/serial numbers
 - Plates with Operating instructions or Manufacturer details
 - Suitable for industrial environments, especially indoors
- **Award & Recognition Plates:**
 - Photo-quality plaques with names, logos, and even grayscale portraits
 - Used in Trophies, Certificates of Achievement
 - Commemorative wall plates
- **Identification Tags:**
 - Personal or company ID badges, Employee or visitor name tags
 - Customizable with logos, job titles, and even photos
- **Compliance & Safety Plates:**
 - Tags for safety instructions, warnings, or inspection records
 - Used in fire safety, electrical panels, HVAC systems, and lab equipment
- **Informational or Display Plates:**
 - Museum or gallery displays: Descriptions and grayscale photos
 - Memorial or tribute plaques: Feature text, logos, and grayscale images
- **Product Branding Plates:**
 - Plates with logos, branding messages, or warranty info
 - Used on consumer products, appliances, tools, electronics, and more
- **Architectural & Office Tags:**
 - Room number signs, office nameplates, and directional signage
 - Clean, elegant appearance suitable for corporate or public environments
- **Laboratory & Medical Equipment Tags:**
 - Durable labels for medical devices, sample containers, and scientific equipment
 - Used on consumer products, appliances, tools, electronics, and more

Contact us today to Quote your AlumaMark Project

Toll Free: 1-800-451-3330

Local: 616-647-0998

www.NapTags.com

info@napindgroup.com

7777 Childsdale Ave NE | Rockford, MI 49341

Material Guide AlumaMark



BENEFITS of ALUMAMARK:

• Photo-Quality Marking

- Exceptional detail: Enables the reproduction of high-resolution images, text, logos, barcodes, and even grayscale photos directly onto the metal.
- Crisp black contrast: Produces sharp, rich black marks without engraving, ideal for small fonts and intricate designs.

• No Material Removal

- Preserves anodized surface: Unlike traditional engraving, AlumaMark markings do not remove the anodized layer, maintaining the metal's corrosion resistance.
- No fillers or post-processing: The laser creates permanent marks chemically—no need for inks, chemicals, or extra steps.

• Easy and Efficient Processing

- CO₂ laser compatible: Works with standard CO₂ lasers, making it accessible for many small businesses and workshops.

• Durable and Long-Lasting

- Resists wear and corrosion: Thanks to the underlying anodized aluminum.
- Fade-resistant: The black mark remains clear and readable over time in indoor environments.

• Professional Appearance

- Elegant metallic finishes: Available in matte silver, gold, bronze, black, and brushed versions.
- Highly customizable: Great for awards, nameplates, branding plates, and more.

• Versatile Applications

- Perfect for: Name Tags, Asset and ID Tags, Plaques, Awards, Control Panel Overlays, Barcode Tags, QR Code Tags, Memorial and Museum Plaques.

• Environmentally Friendly

- No chemicals or solvents needed.
- Low waste process with recyclable aluminum.

