

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:

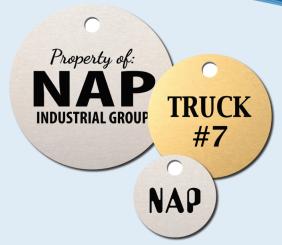
- Retains the protective anodized coating, so the metal remains corrosion- and wear-resistant.
- ° Marking happens within the anodized layer no need to remove it to create contrast.

No Inks or Fillers Needed:

- ° Marking is achieved chemically via the heat of the laser.
- ° No post-processing, paints, or chemical treatments required.



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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 $% \left(1\right) =\left(1\right) \left(1$

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

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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.







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