Stainless Steel Nameplate Specification Sheet

Custom stainless steel nameplates, name plates, data plates and equipment tags, made to order in Mt. Dora, Florida. ISO 9001:2015 and ISO 13485:2016 certified. ITAR registered.

Grades

Grade	Composition	Key strength	Best for	Marking response
304	About 18-20% chromium, 8-10.5% nickel	General corrosion resistance; weldable and formable	Indoor and outdoor industrial plates, control panels	Etches, laser-marks and screen-prints cleanly
316	About 16-18% chromium, 10-14% nickel, 2-3% molybdenum	Superior chloride and acid resistance	Marine, chemical processing, pharmaceutical, food service, washdown	Same as 304, with added chemical durability
430	16-18% chromium, minimal nickel (ferritic, magnetic)	Lower cost, bright decorative finish	Decorative plates, indoor asset tags, appliance ID, budget runs	Good; lower corrosion resistance than 304 or 316

Choosing 304 or 316: choose 304 for indoor and general outdoor plates. Choose 316 when the plate will see salt, de-icing chemicals, chlorinated sanitizers or process chemicals.

Thickness and mounting

Thickness	Typical application	Mounting
0.005" - 0.012"	Thin flexible labels, foil-style tags, insert plates	Adhesive, insert
0.020"	General equipment identification (most popular)	Adhesive, rivets
0.025" - 0.032"	Serialized nameplates, adhesive-mounted asset tags	3M adhesive
0.040" - 0.063"	Control panels, instrument bezels, machine plates	Screws, bolts, rivets
0.090" - 0.125"	Heavy-duty equipment plates, valve tags, structural ID	Bolts, standoffs, welding

Finishes and marking methods

Finish / marking	Description
Brushed / satin (#4)	Directional brushed grain with a satin appearance
Mirror polished (#8)	Highly reflective polished surface
Bead-blasted / matte	Uniform, non-directional matte texture
Chemical (acid) etching	Graphics recessed into the metal; recesses can be paint-filled for contrast
Laser marking / annealing	High-contrast mark with no material loss; suited to variable data, barcodes and medical marks
Electrochemical etching	Stencil, electrolyte and current produce surface or recessed marks; fast serialization
Screen printing (epoxy ink)	Durable multi-color graphics, logos and instructions
Embossing / debossing	Raised or recessed formed characters; readable without ink

Capabilities

Capability	Specification
Grades	304, 316, 430
Custom die-cut shapes	Any shape, thickness from 0.005" to 0.125"
Corner radii	0.0312" to 0.500"
Mounting	Bolt, rivet and screw holes; 3M adhesive backing (Hallmark is a 3M Preferred Converter)
Variable data	Serialization, 1D/2D barcodes, QR codes, UID marking
Compliance	Military specifications, ANSI, UL, CSA
Certifications	ISO 9001:2015, ISO 13485:2016, ITAR registered, UL listed, RoHS compliant

What we need to quote your plate

- Drawing, CAD file or sample plate
- Quantity (prototype or production)
- Grade, or the environment so we can recommend one (salt, chemicals, cleaning method, temperature)
- Finish and marking method
- Mounting method and any specification the plate must meet

Request a quote: hallmarknameplate.com/contact-us/

Specifications are typical and subject to the final quote and drawing. Contact Hallmark Nameplate to confirm requirements for your application.