

## Product: 316 Stainless Steel Labels



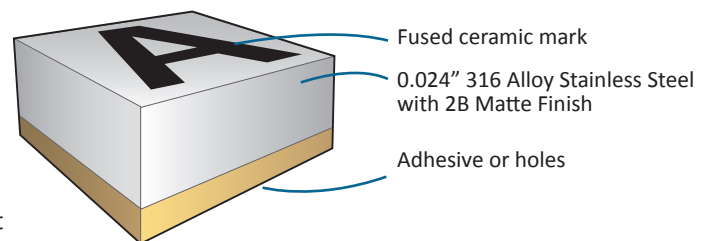
### Product Features

- Thicker stainless steel label with a matte finish for a more decorative nameplate look.
- Designed for durability in marine, food processing, medical and laboratory environments.
- Highly readable crisp black graphics on stainless steel background.
- High-performance adhesives and/or holes for mechanical attachment.

## Need a Durable Stainless Steel Label for Marine Applications?

### Description

With a thicker, more decorative nameplate look, Camcode's **316 Alloy Stainless Steel Industrial Label** is the ideal solution for marine environments or applications requiring resistance to frequent cleaning with strong caustics, such as food processing, medical and laboratory environments. This label is constructed of ceramic-marked 316 Stainless Steel (thickness of .024"), with a 2B matte finish. The high contrast mark on the 316 Stainless Label is created from ceramic-like material that is thermally fused to a high quality 316/316L stainless steel plate. Though the finish may have irregularities and is prone to scratching, the bar code performance will not be affected. The mark will be as durable as the stainless steel itself. High-performance permanent pressure-sensitive adhesive and/or holes for mechanical attachment are available. Camcode's 316 Stainless Steel Label will remain readable after exposure in harsh environments, and has excellent resistance to chemicals, caustics, solvents, salt and intermittent heat up to 700° F. Expected exterior life is 20+ years.



### Product Specifications

- Material** Ceramic-marked 316 Alloy Stainless Steel (thickness of 0.024") with a 2B matte finish.
- Attachment** Permanent pressure-sensitive adhesive and/or holes for mechanical attachment.
- Label Copy** Several font types are available as well as logos or other design elements.
- Symbolologies** All common symbolologies available including code 3 of 9, I 2 of 5, 128 and Data Matrix.
- Colors** Black graphics on stainless steel background.
- Standard Sizes** Standard and custom sizes available.
- Packaging** Shipped in sequential order, in rolls, in boxes. 100% no missing numbers.
- Shipment** 15 working days from receipt of order and approval of artwork. Expedited shipment is available for an additional charge.

# 316 [Stainless Steel Labels](#)

## Durability Characteristics

Product Data	Value	Test Method
<b>Physical Properties</b>		
Label Material	316/316L Stainless Steel	ASTM A240, ASTM A666
Finish	2B Matte	
Thickness, in. (mm)	0.024" (0.61mm) +/-10%	
Marking Material	Mixed Metal Oxide	
<b>Typical Chemical Resistance</b>		
<i>Organic Solvents</i>	No effect	168 hour exposure at ambient temperature.
<i>Gasoline</i>	No effect	
<i>Motor Oil</i>	No effect	
<i>Sulfuric Acid (conc.)</i>	No effect	
<i>Acetic Acid (99.5%)</i>	No effect	
<i>Hydrogen Peroxide (30%)</i>	No effect	
<i>Sodium Hydroxide (25%)</i>	No effect	
<i>Ammonium Hydroxide (20%)</i>	No effect	
<b>Expected Exterior Life</b>		
	20+ years	
<b>Heat Resistance</b>		
	Intermittent Heat to 700°F for adhesive attachment.	Common austenitic stainless steels, such as 316, will exhibit discoloration at elevated temperatures, which is affected by both the temperature level and the duration of exposure. The 316 Stainless Label has been heated in a propane flame until cherry red and while the metal exhibited the characteristic discoloration, the mark was unaffected.
<b>Corrosion Resistance</b>		
	The 316 Stainless Label exhibits excellent resistance to atmospheric and other mild types of corrosion. Prolonged exposure to highly oxidizing acids, such as nitric acid, and water containing an excess of 2000 ppm chlorides should be avoided.	
<b>Attachment</b>		
	The 316 <a href="#">Stainless Steel Label</a> can readily be attached with a wide variety of adhesives or mechanical fasteners. If required by design, labels may be welded. Grade 316/316L stainless steel is generally considered weldable by common fusion and resistance techniques. Special consideration is required to avoid weld "hot cracking" by assuring formation of ferrite in the weld deposit. When weld filler is needed, AWS E/ER 316L and 16-8-2 are most often specified. Obtain more information on 316 and its low-carbon "L" version through reference literature.	

Note: Users must test products in the specific environment anticipated.  
Camcode does not warrant performance of its materials in any environment.