

CNC Machining | Sheet Metal | Injection Molding | Post-Processing

Stainless Steel 304 is a widely used austenitic stainless steel alloy. It is composed primarily of iron, chromium (18-20%), and nickel (8-12%), with small amounts of other elements such as manganese and carbon. Stainless Steel 304 offers excellent corrosion resistance, high strength, and good formability.

## **Physical Properties Chemical Composition** Maximum Unless Maximum Unless Element Property Range is Specified Range is Specified .75 Density, lbs/in3 Silicon 0.29 Specific Heat,BTU/lb-°F (32—212°F) Carbon .08 0.12 Phosphorus .045 Thermal Sulfur .030 9.4 Conductivity ,BTU/hr/ft2/ft/°F Manganese 2.00 Electrical Resistivity, Micohm-in 28.4 at 68°F Chromium 18.00-20.00 2550-2650 Melting Point (Deg°F) Nickel 8.00-12.00 28,000 Modules of Elasticity ,ksi Nitrogen .10 Balance Iron

## Mechanical Properties

Property	Maximum Unless Range is Specified
Ultimate Tensile Strength,ksi	90
Yield Strength,ksi	42
Elongation in 2in	55%
Hardness, Rockwell B	82

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.

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