

### Key Features

- Best corrosion resistance than type 302
- High ductility
- Excellent drawing
- Excellent forming
- Excellent spinning properties
- NON-magnetic

### Common Applications

- Beer kegs
- Bellows
- Chemical equipment
- Coal hopper linings
- Cooking equipment
- Cooling coils
- Cryogenic vessels
- ETC

### Material Description

Stainless Steel 304 is known for its versatility, corrosion resistance, and ease of fabrication. Widely used in various industries such as kitchen equipment, food processing, and architectural structures, it provides good general corrosion resistance in most environments.

### Chemical Composition (%)

	C	Cr	Fe	Mn	Ni	P	Si	S			
<b>Min.</b>		18	66.345		8.0						
<b>Max.</b>	0.080	20	74	2.0	10.5	0.045	1.0	0.030			

### Mechanical Properties

<b>Ultimate Tensile Strength</b>	73,200 PSI
<b>Tensile Yield Strength</b>	31,200 PSI
<b>Hardness</b>	Rockwell B82
<b>Elongation at Break</b>	70%

### Physical Properties

<b>Density</b>	0.289 lb/in <sup>3</sup> (8.00 g/cm <sup>3</sup> )
<b>Thermal Conductivity</b>	16.2W/m.K
<b>Modulus of elasticity</b>	28,000 KSI (193 GPa)
<b>Melting Point</b>	2,550–2,651°F (1,400–1,455 °C)

### Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

### InstaVoxel™ - On-Demand Manufacturing Expert

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InstaVoxel's quality control system is ISO-9001 certified, and all our partners hold relevant certifications.



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