

Stainless Steel 304 /UNS S30400/ 1.4301

Stainless Steel 304L/UNS S30403/1.4303

SS304 is the most common stainless steel. It is an austenitic stainless steel, which has a maximum carbon of 0.08%, while SS304L with carbon maximum 0.03%. SS304 /304L is used for a variety of household and industrial applications such as screws, machinery parts, car headers, and food-handling equipment.

Chemical Composition, %

Element	304	304L
Carbon	0.07	0.03 max
Chromium	17.5-19.5	17.5-19.5
Nickel	8.0-10.5	8.0-12.0
Manganese	2.00	2.00
Silicon	0.75	0.75
Nitrogen	0.10	0.10
Phosphorus	0.045	0.045
Sulfur	0.030	0.030

Mechanical Properties

Property	304	304L
Yield Strength, min. (ksi)	30	25
Tensile Strength, min. (ksi)	75	70
Elongation, min. (%)	40	40
Hardness, max. (Rb)	92	92

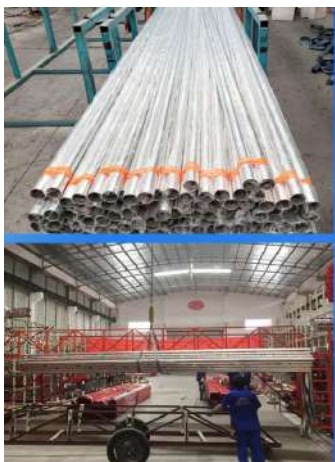
Physical properties

Property	304/304L Data
Density, lb/in ³	0.285
Modulus of Elasticity, psi	28×10^6
Coefficient of Thermal Expansion, 68-212 °F, /°F	9.2×10^{-6}
Thermal Conductivity, Btu/ft hr °F	9.4
Specific Heat, Btu/lb °F	0.12
Electrical Resistivity, Microhm-in	28.3

ASTM SPECIFICATION

Pipe, SMLS& Welded	Tube, SMLS& Welded	Pipe , Seamless	Sheet/Plate	Bar /Rod	Forging /Flange	BW Fittings
ASTM A312	ASTM A269	ASTM A213	ASTM A240	ASTM A276/A479	ASTM A182	ASTM A403

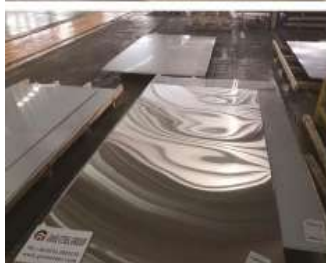
304 304L stainless steel pipe



304 304L stainless steel pipe specifications

Specifications	ASTM A/ASME SA213/A249/A269/A312/A358 CL. I to V ASTM A789/A790
Dimensions	ASTM, ASME and API
304L Pipes & Tubes	1/2" NB - 16" NB
ERW 304L Pipes & Tubes	1/2" NB - 24" NB
EFW 304L Pipes & Tubes	6" NB - 100" NB
Size	1/8"NB TO 30"NB IN
Specialized in	Large Diameter Size
Schedule	SCH20, SCH30, SCH40, STD, SCH80, XS, SCH60, SCH80, SCH120, SCH140, SCH160, XXS
Type	Seamless / ERW / Welded / Fabricated / LSAW Pipes
Form	Round, Square, Rectangular, Hydraulic Etc
Length	Single Random, Double Random & Cut Length.
End	Plain End, Beveled End, Treaded

Product : Plate ,Sheet
Standard: ASTM A240



Product name: Stainless steel plate

Type: Plate

Thickness:0.3-200mm

Length:2000mm/2438mm/3000mm/5800mm/6000mm/12000mmWidth:40mm-600mm/1000mm/1219mm/1500mm/1800mm/2000mm/2500mm/3000mm/3500mm

Standard:ASTM/AISI/JIS/GB/DIN/EN

Surface:BA/2B/NO.1/NO.4/4K/HL/8K

Certificate:ISo/SGS/BV

Production technology: Hot Rolled / Cold Rolled

Edge treatment: Edging /trimming



2B



8K



BA



HL



NO.1



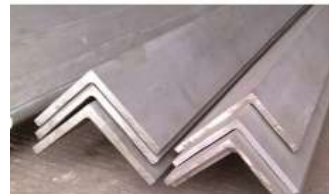
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Stainless steel profiles

Product: Bar/ Rod

Standard: ASTM A276/A479

Flat Bar Round Bar Hexagonal Bar



Specifications of 304 304L steel bar

Outer diameter

Round bar: 4mm-500mm

Hexagonal bar: 18mm-57mm (11/16" to 2-3/4")

Square bar: 18mm-47mm (11/16" to 1-3/4")

Flat bar: 1/2" to 10", Thickness: 2mm-150mm, customizable

Length: 1-6 meters, customizable

Standard: ASTM / AISI / JIS / GB / DIN / EN

Surface: black, bright polished, rough turned, matte surface treatment, NO.4, BA, etc.

Certificate: ISO / SGS / BV

Production technology: hot rolling / cold rolling

Product: BW Fittings (Elbow, Reducer, Cap, Tee, Stub Ends)
Standard: ASTM A403



Product : Forgings / Flanges
Standard: ASTM A182

