

316/L STAINLESS STEEL HOLLOW BAR

316/L is a low carbon austenitic marine grade stainless steel. It is characterized as a good strength stainless steel with excellent corrosion resistance in the annealed condition. Optimum corrosion resistance is achieved in annealed condition.

316/L Stainless Steel is not suitable for hardening by thermal treatment, but can be increased by cold working. Note that this has a corresponding reduction in ductility.

Typical uses include: Textile Equipment, Marine Equipment and fittings, Pulp and Paper processing equipment, medical equipment etc.

Stocked Sizes - 32 mm – 400 mm O/D

Related Specifications

Germany	W Nr 1.4404 X2CrNiMo17 13 2 W Nr 1.4435 X2CrNiMo18 14 3
USA	ASTM A511-96 316L SAE 30316L AISI 316L UNS S31603

Chemical Composition

	Min. %	Max %
Carbon	0	0.08 (316L – 0.03)
Silicon	0	1.00
Manganese	0	2.00
Nickel	10.00	15.00
Chromium	16.00	18.00
Molybdenum	2.00	3.00
Phosphorous		0.045
Sulphur		0.030

Typical Mechanical Properties – At Room Temperature in rolled annealed condition (For Guidance Only)

Tensile Strength (Mpa)	580
Yield Strength (Mpa)	290
Elongation in 50mm (%)	50
Hardness (Brinell BHN)	175

Annealing

Heat to 1020-1100 Deg C. Hold until temperature is uniform throughout the section. Soak as required (Min 30 minutes per 25mm of section). Quench in water to optimize corrosion resistance.