STAINLESS STEEL Advanced Materials. Engineered for Performance.

316 / 316L

Stainless Steel | UNS: S31600 / S31603 | EN: 1.4401 / 1.4404 | JIS: SUS316 / SUS316L

Molybdenum-bearing austenitic stainless steel. The 2-3% Mo addition transforms pitting resistance in chloride-bearing media, making 316L the baseline grade for marine and chemical service in the Gulf.



Stock status: Ex-stock Dubai - Typical lead time: 2 - 3 working days ex Dubai

Key features

- Molybdenum-enhanced pitting resistance
- Excellent in chloride environments
- Dual-certified 316/316L material available

Available forms & sizes

Form	Size range
Plates	1.5 - 100 mm thk, up to 2500 mm wide
Sheets & Coils	0.4 - 6 mm thk, 1000 / 1219 / 1500 mm wide
Seamless Pipes & Tubes	1/2" - 24" NB, SCH 5S - SCH 160
Round Bars	6 - 500 mm dia
Flanges	1/2" - 48", 150# - 2500#
Fittings	1/2" - 48", SCH 10S - SCH 160

Chemical composition (%)

Element	Min	Max
C	-	0.08 / 0.030
Cr	16.0	18.0
Ni	10.0	14.0
Mo	2.00	3.00
Mn	-	2.00

Mechanical properties

Property	Value	Unit

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Yield Strength (0.2%)	205 min	MPa
Tensile Strength	515 min	MPa
Elongation	40 min	%
Hardness	217 max	HBW

Physical properties

Property	Value	Unit
Density	7.98	g/cm3
Max Service Temperature	870	C
PREN	25	-

Standards

ASTM A240, ASTM A312, ASTM A182, EN 10088-2

Equivalent grades

1.4401, 1.4404, SUS316L, X2CrNiMo17-12-2

Industries served

Oil & Gas, Marine, Chemical Processing, Desalination

Typical applications

- Marine and coastal structures
- Chemical process piping
- Desalination pre-treatment
- Pharmaceutical clean systems

Live datasheet