

316/316L (UNS S31600/S31603)

Description

Type 316 is a molybdenum steel processing improved resistance to pitting by solutions containing chlorides and other halides. In addition, it provide excellent tensile, creep and stress-rupture strengths at elevated temperatures. Type 316 is available in low carbon (316L) and high carbon (316H) alloys.

Specifications

ASTM: A312, A376, A358, A269, A249, A403, A182, A351, A479, A276

ASME: SA312, SA376, SA358, SA269, SA249, SA182, SA276, SA403, SA479, SA351

Chemical Composition%

C	Cr	Mn	Mo	Ni	P	S	Si
MAX	–	MAX		–	Max	MAX	MAX
0.035	16.0- 18.0	2.00	2.0-3.0	10.0-14.0	0.045	0.030	1.00

Tensile Requirements

Tensile Strength: (KSI) = 70

Yield Strength: (KSI) = 25

(KSI converts to MPA {Megapascals} by multiplying by 6.895)

Typical Application

- Nuclear, chemical processing, rubber, plastics pulp/paper, Pharmaceutical and textile industries
- Heat exchangers, condensers and evaporators

TRUPPLY