

316L Stainless Steel Polished Tube

ASTM A269/A270

Characteristics

316 / 316L stainless tube is available as welded and seamless. It contains additional molybdenum and nickel than 304 stainless, which increases corrosion resistance of the metal. Decreased weldability is exhibited in 316L alloys due to increased carbon in the alloy. It is used for tube in more aggressive environments than 304 tube.

Applications

316 / 316L tube is used mainly as seamless for pressure operations in extremely corrosive environments, such as acid processing and waste treatment equipment, and salt water marine applications. Welded pipe is used for structural applications such as handrails, machine supports for processing equipment and architectural supports.

Typical Chemical Properties

Carbon, Max %	0.03
Manganese, Max %	2.00
Phosphorus, Max %	0.045
Sulphur, Max %	0.03
Chromium, Max%	18.0
Nickel, Min%	14.0
Molybdenum, Max%	3.0

Typical Mechanical Properties

Tensile Strength ksi	83
Yield 2% Offset ksi	38
Elongation in 2" (50.80mm)	50