

Alloy 400

(UNS N04400)

Availability:

Seamless Pipe: 1/2" - 8"
Weld Pipe: 8" - 12"
Butt-Weld Fittings: 1/2" - 8"
Flanges: 1/2" - 8"
Pressure Fittings: 1/2" - 2"
150# Fittings: 1/4" - 1"
Tubing: 1/4", 3/8", 1/2"
Bar: 1" - 8"

Specifications:

ASTM B165, B127, B366, B164
B564

ASME SB165, SB127, SB366
SB164, SB564

Description:

Alloy 400 is used for its excellent combination of corrosion resistance, strength, ductility and weldability. The corrosion resistance in seawater is especially good under high velocity conditions. Alloy 400 also is generally not susceptible to stress corrosion cracking.

Typical Applications:

- Feed-water and steam generator in power plants
- Brine heaters and evaporator bodies in salt plants
- Sulfuric and hydrofluoric acid alkylation plants
- Industrial heat exchangers
- Cladding for crude oil distillation columns
- Splash-zone sheathing in offshore structures
- Propeller and pump shafts for seawater service
- Monoethanolamine (MEA) reboiler tubes


Tensile Requirements:

Tensile Strength	Yield Strength
(KSI) = 70	5" < (KSI) = 28
	5" > (KSI) = 25

KSI can be converted to MPA (Megapascals) by multiplying by 6.895.

Chemical Composition %

C	Cu	Mn	Ni	S	Si	Fe
MAX		MAX	MIN	MAX	MAX	MAX
0.30	28.0 - 34.0	2.00	63.0	0.024	0.50	2.50

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