

Description

Alloy 400 is a nickel-copper alloy that is resistant to seawater and steam at high temperatures as well as to salt and caustic solutions. Alloy 400 is a solid solution alloy that can only be hardened by cold working. This nickel alloy exhibits characteristics like good corrosion resistance, good weldability and high strength.

Product Capabilities

Form Name	Size Range	Schedules	Specifications
Welded Pipe	1/2"-36"	10S, 40S	ASTM B725 / ASME SB725
Seamless Pipe	1/2"-36"	10S, 40S, 80S, 160	ASTM B165 / ASME SB165
Buttweld Fittings	1/2"-36"	10S, 40S, 80S, 160	ASTM B366 / ASME SB366
Flanges	1/2"-36"	150#, 300#, 600#	ASTM B564 / ASME SB164
Pressure Fittings	1/2"-2"	3000# THRD/SW	ASTM B564 / ASME SB564 ASTM B164 / ASME SB164

Limiting Chemical Composition %

C	Cu	Mn	Ni	S	Si
MAX 0.15	28.0-34.0	MAX 1.25	MIN 63.0	MAX 0.02	MAX 0.50

Typical Industrial Applications

- Marine engineering
- Chemical and hydrocarbon processing equipment
- Gasoline and freshwater tanks
- Crude petroleum stills
- Boiler feed water heaters and other heat exchangers
- Industrial heat exchangers
- HF Alkylation

Tensile Requirements

Tensile Strength ksi (min.)	Yield Strength ksi (min.)
81	36