

## Description

Alloy 600 is a nickel-chromium alloy used for applications that require corrosion and high temperature resistance. This nickel alloy was designed for service temperatures from cryogenic to elevated temperatures in the range of 2000°F. It is non-magnetic, has excellent mechanical properties, and presents the desirable combination of high strength and good weldability under a wide range of temperatures.

## Product Capabilities

Form Name	Size Range	Schedules	Specifications
Welded Pipe	1/2"-36"	10S, 40S, 80S	ASTM B517 / ASME B517
Seamless Pipe	1/2"-36"	10S, 40S, 80S, 160	ASTM B167 / ASME SB167
Buttweld Fittings	1/2"-36"	10S, 40S, 80S	ASTM B366 / ASME SB366
Flanges	1/2"-36"	150#, 300#	ASTM B564 / ASME SB564
Pressure Fittings	1/2"-2"	3000# THRD/SW	ASTM B564 / ASME SB564 ASTM B366 / ASME SB366

## Limiting Chemical Composition %

C	Cr	Cu	Fe	Mg	N	S	Si
MAX 0.15	14.0-17.0	MAX 0.5	6.00-10.00	MAX 1.00	MIN 72.0	MAX 0.015	MAX 0.50

## Typical Industrial Applications

- Chemical industry
- Aerospace
- Heat treating industry
- Pulp and paper industry
- Food processing
- Gas turbine components

## Tensile Requirements

Tensile Strength ksi (min.)	Yield Strength ksi (min.)
80	35