

C	Cr	Cu	Fe	Mg	N	S	SI
MAX		MAX		MAX	MIN	MAX	MAX
0.15	14.0-17.0	.50	6.0-10.0	1.0	72.0	0.015	0.50

**CHEMICAL COMPOSITION %**

## DESCRIPTION

Alloy 600 is a nickel chromium iron alloy used for applications which require resistance to corrosion and heat. This alloy has excellent mechanical properties and presents the desirable combination of high strength and good workability under a wide range of temperatures.

## DESIGN FEATURES

- High nickel content offers excellent resistance to corrosion by many organic and inorganic compounds.
- Virtually immune to chloride stress corrosion cracking.
- Chromium confers resistance to sulfur compounds and provides resistance to oxidizing conditions at high temperatures or in corrosive solutions.
- Alloy 600 is not precipitative hardenable, it is hardened and strengthened only by cold work.
- Good for a variety of applications involving temperatures from cryogenic to above 2000 F.

AVAILABILITY		SPECS
SEAMLESS PIPE	1/2" - 8"	B167
BUTT-WELD FITTINGS	1/2" - 8"	B366
FLANGES	1/2" - 8"	B166, B564,
		B16.5
BAR	1" - 8"	B166, B564
PLATE	3/16" - 1"	B168
FORGINGS		B564

## TYPICAL APPLICATIONS

Steam generators  
 Chemical processing  
 Food processing  
 Superheaters  
 Jet engines  
 Electronic parts

## TENSILE REQ

Tensile Strength	(KSI) 80
Yield Strength	(KSI) 35

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