JAMES DUVA INC.

ALLOY 600

(UNS N06600)

AVAILABILITY

Seamless Pipe 1/2″-8 “
Butt-Weld Fittings 1/2″-8″
Flanges 1/2″-8″
Bar 1″-8″

SPECIFICATIONS

ASTM B167, B366, B166, B564
ASME SB167, SB366, SB564, SB166

CHEMICAL COMPOSITION %

C	Cr	Cu	Fe	Mg	N	S	Si
Max		Max		Max	Min	Max	Max
0.15	14.0-17.0	0.50	6.00-10.00	1.00	72.0	0.015	0.50

DESCRIPTION

Alloy 600 is a nickel chromium iron alloy used for applications which require resistance to corrosion and heat. The alloy also 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 chlorideon 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.

TYPICAL APPLICATIONS

Steam generators
Chemical processing
Food processing
Superheaters
Jet engines
Electronic parts

TENSILE REQUIREMENTS

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

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

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