

Material: SAE Inconel 600

Standard Specification for Nickel Alloy, Corrosion and Heat Resistant, Bars, forgings and Rings

Group: Non-Ferrous Nickel Alloys

Sub Group: SAE Inconel 600 Nickel Alloy, Corrosion and Heat Resistant, Bars, forgings and Rings

Application: Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry: Pipe Flange, Fitting and Valve

Chemical Composition		
Carbon	C %	0.150 max.
Silicon	Si %	0.500 max.
Manganese	Mn %	1.000 max.
Chromium	Cr %	14.000 - 17.000
Copper	Cu %	0.500 max.
Sulphur	S %	0.015 max.
Iron	Fe %	6.000 - 10.000
Aluminium	Al %	0.350 max.
Cobalt	Co %	1.000 max.
Niobium	Nb %	1.000 max.
Titanium	Ti %	0.500 max.
Phosphorus	P %	0.040 min.
Tantalum	Ta %	0.050 max.
Nickel	Ni %	72.000 min.
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Heat Treatment	
As-Cast or Annealing or Age Hardning	

Mechanical Properties	
Tensile Strength in Mpa	517 - 1276
Yield Strength in Mpa	172 - 1207
Elongation in %	2 - 50
Reduction of Area in %	40 - 70
Hardness in HRC	65 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
HARPER 600	SAE	USA	Pipe Flange, Fitting and Valve
N06600	UNS	USA	Pipe Flange, Fitting and Valve
NIREX	SAE	USA	Pipe Flange, Fitting and Valve
PYROMET 600	SAE	USA	Pipe Flange, Fitting and Valve
SIMALLOY 600	SAE	USA	Pipe Flange, Fitting and Valve
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