

## 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			Heat Treatment	
Carbon	C %	0.150 max.	As-Cast or Annealing or Age Hardning	
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.		
			Mechanical Properties	
Titanium	Ti %	0.500 max.	Tensile Strength in Mpa	517 - 1276
Phosphorus	P %	0.040 min.	Yield Strength in Mpa	172 - 1207
Tantalum	Ta %	0.050 max.	Elongation in %	2 - 50
Nickel	Ni %	72.000 min.	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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