

## Material: SAE SIMALLOY 600

### Standard Specification for Nickel and Nickel-Related Alloys

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** SAE PYROMET 600 Nickel and Nickel-Related Alloys

**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 %	15.500 max.		
Copper	Cu %	0.500 max.		
Iron	Fe %	9.000 max.		
Nickel	Ni %	76.000 min.		
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-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 552 - 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 -	
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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
Inconel 600	SAE	USA	Pipe Flange, Fitting and Valve
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