



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - SAE NIREX

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

Group - Non-Ferrous Nickel Alloys

Sub Group - SAE NIREX 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.		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	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	-

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
PYROMET 600	SAE	USA	Pipe Flange, Fitting and Valve
SIMALLOY 600	SAE	USA	Pipe Flange, Fitting and Valve
Inconel 600	SAE	USA	Pipe Flange, Fitting and Valve
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-	-	-	-

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

**ONE STOP SOLUTION FOR METAL PARTS**