



## Material - IS 4522 Grade 6

## Standard Specification for Heat Resistant Alloy Steel and Nickel Base Castings

**Group - Ferrous Stainless Steel Alloys** 

Sub Group - IS 4522 Grade 6 Heat Resistant Alloy Steel and Nickel Base Castings
Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries
Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 - 0.500		
Silicon	Si %	2.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.050 max.	As - Cast or Annealing	
Sulphur	S %	0.050 max.		
Chromium	Cr %	26.000 - 30.000		
Nickel	Ni %	8.000 - 10.000		
Molybdenum	Mo %	0.500 max.		_
Iron	Fe %	Balance	Mechanical Properties	
-	-		Tensile Strength in Mpa	570 - 610
-	-	-	Yield Strength in Mpa	290 - 340
-	-	-	Elongation in %	45207
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	160 - 220
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country Grade Belong to the Industry		
J93403	UNS	USA	Casting	
SCH 18	JIS	Japan	Casting	
J94013	UNS	USA	Casting	
A608 Grade HI 35	ASTM	USA	Casting	
J93403	UNS	USA	Casting	
SCH 17	JIS	Japan	Casting	
A608 Grade HE 35	ASTM	USA	Casting	

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

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