

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	As - Cast or Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.050 max.		
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
-	-	-	Impact in Joule	-

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

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