

Material: IS 4522 Grade 8

Standard Specification for Heat Resistant Alloy Steel and Nickel Base Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: IS 4522 Grade 8 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		
Carbon	C %	0.150 - 0.350
Silicon	Si %	2.500 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.050 max.
Sulphur	S %	0.050 max.
Chromium	Cr %	19.000 - 21.000
Nickel	Ni %	13.000 - 15.000
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As - Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	450 min.
Yield Strength in Mpa	-
Elongation in %	7 min.
Reduction of Area in %	-
Hardness in HB	150 - 220
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4832	DIN	Germany	Casting
GX25CrNiSi 20-14	DIN	Germany	Casting
20Ch20N14S2L	GOST	Russia	Casting
LH 19 N 14 G	PN	Poland	-
-	-	-	-
-	-	-	-
-	-	-	-

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