

Material: IS 4522 Grade 7

Standard Specification for Heat Resistant Alloy Steel and Nickel Base Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: IS 4522 Grade 7 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 %	0.200 - 0.500
Silicon	Si %	2.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.050 max.
Sulphur	S %	0.050 max.
Chromium	Cr %	23.000 - 27.000
Nickel	Ni %	11.000 - 14.000
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
As - Cast or Annealing	

Mechanical Properties	
Tensile Strength in Mpa	510 - 540
Yield Strength in Mpa	250 - 540
Elongation in %	10 - 15
Reduction of Area in %	-
Hardness in HB	150 - 240
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J93503	UNS	USA	Casting
1.4837	DIN	Germany	Casting
309 C 30	BS	British	Casting
SCH 13 A	JIS	Japan	Casting
422936	CSN	Czech Republic	Casting
40 CH 24N 12 SL	GOST	Russia	Casting
40 CrNiSi 25-12	MSZ	Hungary	Casting

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