

Material: IS 4522 Grade 11

Standard Specification for Heat Resistant Alloy Steel and Nickel Base Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: IS 4522 Grade 11 Alloy Steel and Nickel Base Casting for Heat Resistant

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 %	19.000 - 23.000
Nickel	Ni %	23.000 - 27.000
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As - Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	440 min.
Yield Strength in Mpa	240 min.
Elongation in %	7 min.
Reduction of Area in %	-
Hardness in HB	130 - 200
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J94213	UNS	USA	Casting
A608 Grade HN 40	ASTM	USA	Casting
J94214	UNS	USA	Casting
SCH 19	JIS	Japan	Casting
A297 Grade HN	ASTM	USA	Casting
13505 Grade 12	IS	India	Casting
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