

Material: IS 4522 Grade 5

Standard Specification for Heat Resistant Alloy Steel and Nickel Base Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: IS 4522 Grade 5 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 %	18.000 - 20.000		
Nickel	Ni %	8.000 - 10.000		
Molybdenum	Mo %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	490 - 540
-	-	-	Yield Strength in Mpa	240 - 270
-	-	-	Elongation in %	15 - 20
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	130 - 220
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J92603	UNS	USA	Casting
1.4826	DIN	Germany	Casting
SCH 12	JIS	Japan	Casting
G X 30 CrNi 20-10	UNI	Italy	Casting
AM-X 30 CrNi 20-10	UNE	Spain	Casting
422934	CSN	Czech Republic	Casting
G X 40 CrNiSi 22-9	DIN	Germany	Casting

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