

Material: IS 4522 Grade 2

Standard Specification for Heat Resistant Alloy Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: IS 4522 Grade 2 Heat Resistant Alloy Steel Castings

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.300 - 0.600
Silicon	Si %	2.000 max.
Manganese	Mn %	1.000 max.
Phosphorus	P %	0.050 max.
Sulphur	S %	0.050 max.
Chromium	Cr %	27.000 - 30.000
Molybdenum	Mo %	0.500 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As - Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	390 min.
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J92605	UNS	USA	Casting
452 C 11	BS	British	Casting
1.4823	DIN	Germany	Casting
G X 35 Cr 28	UNI	Italy	Casting
40 CrNiSi 25-4	MSZ	Hungary	Casting
G X 40 CrNiSi 27-4	DIN	Germany	Casting
A297 Grade HD	ASTM	USA	Casting

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