

Material: IS 4522 Grade 3

Standard Specification for Heat Resistant Alloy Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: IS 4522 Grade 3 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 %	1.200 - 1.400
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
1.4777	DIN	Germany	Casting
Gx130GSi29	DIN	Germany	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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