

Material: DIN 1.4777

Standard Specification for Heat Resistant Alloy Steel Castings

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4777 Alloy Steel 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 %	1.200 - 1.400
Silicon	Si %	1.000 - 2.500
Manganese	Mn %	0.500 - 1.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	27.000 - 30.000
Cobalt	Co %	0.500 max.
Copper	Cu %	0.200 max.
Niobium	Nb %	0.200 max.
Nickel	Ni %	1.000 max.
Vanadium	V %	0.080 max.
Tungsten	W %	0.200 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
AS-Cast or Annealing

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	250 - 350
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX130CrSi29	DIN	Germany	Casting
4522 Grade 3	IS	India	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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