

## 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			Heat Treatment	
Carbon	C %	1.200 - 1.400	AS-Cast or Annealing	
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.	Mechanical Properties	
Tungsten	W %	0.200 max.	Tensile Strength in Mpa	-
Iron	Fe %	Balance	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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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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