

Material: AFNOR NF Z 120 M 12 M

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF Z 120 M 12 M Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	1.100 - 1.400
Silicon	Si %	1.000 max.
Manganese	Mn %	11.000 - 14.000
Phosphorus	P %	0.080 max.
Sulphur	S %	0.030 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Cast or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	300 - 500
Yield Strength in Mpa	-
Elongation in %	20 - 45
Reduction of Area in %	-
Hardness in BHN	180 - 250
Impact in Joule	70 - 220 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
BW10	BS	British	Casting
1.3401	DIN	Germany	Casting
1.3802	ONORM	Australia	Casting
1.3802	NBN	Belgium	Casting
1.3802	BDS	Bulgaria	Casting
GX120Mn13	BDS	Bulgaria	Casting
GX120Mn13	NBN	Belgium	Casting

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