

Material: AFNOR NF Z 40CN25.12-M

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: AFNOR NF Z 40CN25.12-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			Heat Treatment	
Carbon	C %	0.300 - 0.500	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	2.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	23.000 - 26.000		
Nickel	Ni %	12.000 - 14.000		
Niobium	Nb %	1.500 max.		
Tungsten	W %	5.000 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 500 min. Yield Strength in Mpa 240 min. Elongation in % 8 min. Reduction of Area in % - Hardness in BHN 200 min. Impact in Joule -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
309C30	BS	British	Casting
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