



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - AFNOR NF Z 2 CND 18.12 M

Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - AFNOR NF Z 2 CND 18.12 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 %	0.030 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	1.500 max.		
Manganese	Mn %	1.500 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 21.000		
Molybdenum	Mo %	2.000 - 3.000		
Nickel	Ni %	9.000 - 13.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 400 - 600 Yield Strength in Mpa 200 min. Elongation in % 40 min. Reduction of Area in % - Hardness in BHN 140 - 170 Impact in Joule 80 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
316C12	BS	British	Casting
316C12LT196	BS	British	Casting
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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS