

## 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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-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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