



Material - AFNOR NF 20NCD12M

Standard Specification for Unalloyed and Low Alloy Structural Cast Steels Suitable for Heat Treatment

Group - Ferrous Mild Steel Alloys

Sub Group - AFNOR NF 20NCD12M Unalloyed and Low Alloy Structural Cast Steels Suitable for Heat Treatment

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.230 max.	Normalising + Tempering or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.800 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	1.350 - 1.850		
Nickel	Ni %	2.500 - 3.500		
Molybdenum	Mo %	0.350 - 0.600		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	750 min.
-	-	-	Yield Strength in Mpa	500 min.
-	-	-	Elongation in %	14 min.
-	-	-	Reduction of Area in %	3 min.
-	-	-	Hardness in BHN	350 - 400
-	-	-	Impact in Joule	10 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC2-1	ASME	USA	Casting
1.6783	DIN	Germany	Casting
J42215	UNS	USA	Casting
T15MoCrNi30R	STAS	Romania	Casting
1.6783	EN	European Union	Casting
J42015	UNS	USA	Casting
A352 LC2-1	ASTM	USA	Casting

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

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