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		
Carbon	C %	0.230 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing + Tempering or Hardening + Tempering

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

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