

Material: DIN 1.6783

Standard Specification for Heat Treatable Alloyed NiCrMo Steel

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 1.6783 Heat Treatable Alloyed NiCrMo Steel

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.220 max.
Silicon	Si %	0.600 max.
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.025 max.
Sulphur	S %	0.020 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	620 - 820
Yield Strength in Mpa	450 min.
Elongation in %	18 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	90 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC2-1	ASME	USA	Casting
J42215	UNS	USA	Casting
20NCD12M	AFNOR NF	France	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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