

Material: DIN GS-18NiCrMo12 6

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: DIN GS-18NiCrMo12 6 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.190	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.300 max.		
Manganese	Mn %	0.550 - 0.700		
Phosphorus	P %	0.010 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	1.300 - 1.800		
Molybdenum	Mo %	0.450 - 0.550		
Nickel	Ni %	3.000 - 3.200		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	750 - 900
-	-	-	Yield Strength in Mpa	650 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.6781	EN	European Union	Casting
1.6781	DIN	Germany	Casting
G17NiCrMo13-6	DIN	Germany	Casting
G17NiCrMo13-6	EN	European Union	Casting
G17NiCrMo13-6	AFNOR NF	France	Casting
G17NiCrMo13-6	UNI	Italy	Casting
1.6781	DIN	Germany	Casting

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