

Material: ONORM GS 18 CrMo 9 10

Standard Specification for High-quality steel, alloyed

Group: Ferrous Mild Steel Alloys

Sub Group: ONORM GS 18 CrMo 9 10 High-quality steel, alloyed

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.200	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.300 - 0.600		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	2.000 - 2.500		
Molybdenum	Mo %	0.900 - 1.100		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	590 - 740
-	-	-	Yield Strength in Mpa	400 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J22090	UNS	USA	Casting
1.7379	DIN	Germany	Forging
1.7383	EN	European Union	Forging
10 CD 9.10	AFNOR NF	France	Forging
622.0000	BS	British	Bar
8 CrMoNiNb 9-10	DIN	Germany	Steel
A757 D1N1 D1Q1	ASTM	USA	Casting

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