

Material: DIN 8 CrMoNiNb 9-10

Standard Specification for Low alloyed CrMoNiMn steel

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 8 CrMoNiNb 9-10 Low alloyed CrMoNiMn steel

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.100 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.150 - 0.500		
Manganese	Mn %	0.400 -0.800		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	2.000 - 2.500		
Molybdenum	Mo %	0.900 - 1.100		
Nickel	Ni %	0.300 - 0.800		
Aluminium	Al %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	390 - 610
-	-	-	Yield Strength in Mpa	215 min.
-	-	-	Elongation in %	17 min.
-	-	-	Reduction of Area in %	38 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 J @ RT

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
GS 18 CrMo 9 10	ONORM	Australia	Steel
A757 D1N1 D1Q1	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com