

Material: AFNOR NF 10 CD 9.10

Standard Specification for steel forgings for boilers and pressure vessels - grades and types

Group: Ferrous Mild Steel Alloys

Sub Group: AFNOR NF 10 CD 9.10 steel forgings for boilers and pressure vessels - grades and types

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

Grade Belongs to the Industry: Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.350 max.		
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	2.000 - 2.500		
Molybdenum	Mo %	0.900 - 1.100		
Vanadium	V %	0.040 max.		
Copper	Cu %	0.250 max.		
Vanadium	V %	0.050 max.		
Nickel	Ni %	0.400 max.	Mechanical Properties	
Iron	Fe %	Balance	Tensile Strength in Mpa	520 - 670
-	-	-	Yield Strength in Mpa	310 min.
-	-	-	Elongation in %	18 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	28 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
622	BS	British	Bar
GS 18 CrMo 9 10	ONORM	Australia	Steel
8 CrMoNiNb 9-10	DIN	Germany	Steel
A757 D1N1 D1Q1	ASTM	USA	Casting

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