



Material - AFNOR NF 10 CrMo 9-10

Standard Specification for Flat Products for Pressure Purpose (Elevated Temperatures)

Group - Ferrous Mild Steel Alloys

Sub Group - AFNOR NF 10 CrMo 9-10 Flat Products for Pressure Purpose (Elevated Temperatures) Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	С%	0.800 - 0.140		
Silicon	Si %	0.500 max.	Normalising or Annealing or Hardening + Tempering	
Manganese	Mn %	0.400 - 0.800		
Phosphorus	P %	0.030 max.		Hardening + Tempering
Sulphur	S %	0.025 max.		
Chromium	Cr %	2.000 - 2.500		
Molybdenum	Mo %	0.900 - 1.100		
Nickel	Ni %	0.500 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-		Tensile Strength in Mpa	450 - 630
-	-	-	Yield Strength in Mpa	250 min.
-	-	-	Elongation in %	17 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impac <mark>t in Joule</mark>	27 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
SA-217 WC9	ASME	USA	Casting	
J21890	UNS	USA	Casting	
10 CrMo 9-10	DIN	Germany	Forging	
10 CrMo 9-10	EN	European Union	Casting	
10 CrMo 9-10	UNI	Italy	Casting	
622	BS	British	British	
A217 Grade WC9	ASTM	USA	Casting	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.