

Material: EN 10 CrMo 9-10

Standard Specification for Flat Products for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: EN 10 CrMo 9-10 Flat Products for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.080 - 0.140
Silicon	Si %	0.500 max.
Manganese	Mn %	0.400 - 0.800
Phosphorus	P %	0.030 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	2.000 - 2.500
Molybdenum	Mo %	0.900 - 1.100
Copper	Cu %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

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	-
Impact in Joule	27 J @ RT

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

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