

Material: BS 622

Standard Specification for Alloy Steel; Steels for Fired and Unfired Pressure Vessels: Sections and Bars

Group: Ferrous Mild Steel Alloys

Sub Group: BS 622 Cr-Mo Alloy Steel; Steels for Fired and Unfired Pressure Vessels: Sections and Bars

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

Grade Belongs to the Industry: Bar

Chemical Composition		
Carbon	C %	0.090 - 0.150
Silicon	Si %	0.500 max.
Manganese	Mn %	0.300 - 0.600
Phosphorus	P %	0.025 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	2.000 - 2.500
Molybdenum	Mo %	0.900 - 1.100
Nickel	Ni %	0.300 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Normalizing or Annealing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	490 - 690
Yield Strength in Mpa	275 min.
Elongation in %	16 min.
Reduction of Area in %	-
Hardness in HB	156 - 235
Impact in Joule	25 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
10 CrMo 9-10	EN	European Union	Casting
10 CrMo 9-10	UNI	Italy	Casting
J21890	UNS	USA	Casting
A217 Grade WC9	ASTM	USA	Casting

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



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India