



## Material - BS 621

**Standard Specification for Low Alloyed CrMo Steel; Steels for Pressure Purposes Plates**

**Group - Ferrous Mild Steel Alloys**

**Sub Group - BS 621 Low Alloyed CrMo Steel; Steels for Pressure Purposes Plates**

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

**Grade Belongs to the Industry - Plate**

Chemical Composition			Heat Treatment			
Carbon	C %	0.090 - 0.170	Normalising or Annealing or Hardening + Tempering			
Silicon	Si %	0.500 - 0.800				
Manganese	Mn %	0.400 - 0.650				
Phosphorus	P %	0.025 max.				
Sulphur	S %	0.015 max.				
Chromium	Cr %	1.000 - 1.500				
Nickel	Ni %	0.300 max.				
Molybdenum	Mo %	0.450 - 0.600				
Aluminium	Al %	0.020 max.				
Copper	Cu %	0.300 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	420 - 690		
-	-	-	Yield Strength in Mpa	275 min.		
-	-	-	Elongation in %	16 min.		
-	-	-	Reduction of Area in %	-		
-	-	-	Hardness in HB	140 - 212		
-	-	-	Impact in Joule	140 - 212 J @ RT		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
369 G-17 CrMo 5-5	SFS	Finland	Casting
J12073	UNS	USA	Casting
A541 G. 11 Class 4	ASTM	USA	Forging
G 17 CrMo 5-5	UNI	Italy	Casting
A217 WC11	ASTM	USA	Casting
A217 WC6	ASTM	USA	Casting
A356 6	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](mailto:marketing@gravitycastindia.com)**

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