

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	Normalizing 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.	Mechanical Properties	
Iron	Fe %	Balance	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

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