

Material: ISO G17CrMo9-10

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: ISO G17CrMo9-10 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.130 - 0.200	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.900		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	2.000 - 2.500		
Molybdenum	Mo %	0.900 - 1.200		
Nickel	Ni %	0.400 max.		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 590 - 740 Yield Strength in Mpa 400 min. Elongation in % 18 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 40 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G17CrMo9-10	BS	British	Plate, Tubes and Forging
1.7379	ISO	International	Casting
15 CD9.10-M	AFNOR NF	France	Pump, Valve and Fitting
SCPH 32	JIS	Japan	Casting
A 217 Grade WC9	ASTM	USA	Casting
A 217 J21890	ASTM	USA	Casting
SCPH 32-CF	JIS	Japan	Casting

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