

# Material: BS EN 10213 G17Mn5

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BS EN 10213 G17Mn5 Steel Castings for Pressure Purposes

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

**Grade Belongs to the Industry:** Plate, Tubes and Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.200	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.000 - 1.600		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.300 max.		
Molybdenum	Mo %	0.120 max.		
Nickel	Ni %	0.400 max.		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.030 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa 240 min. Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in BHN - Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GS-16 Mn 5	DIN	Germany	Plate, Tubes and Forging
SC 480	JIS	Japan	Casting
SCW 480	JIS	Japan	Casting
SCW 490-CF	JIS	Japan	Casting
G 17 Mn 5	MSZ	Hungary	Casting
G 17 Mn 5	UNI	Italy	Casting
G 17 Mn 5	UNE	Spain	Casting

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