

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		
Carbon	C %	0.150 - 0.200
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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
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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