



## Material - UNI G 17 Mn 5

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - UNI G 17 Mn 5 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 %	0.150 - 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      450 - 600 Yield Strength in Mpa      240 min. Elongation in %      24 min. Reduction of Area in %      - Hardness in BHN      - Impact in Joule      70 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G17Mn5	BS	British	Plate, Tubes and Forging
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	UNE	Spain	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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