



Material - DIN GS-20 Mn 5

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - DIN GS-20 Mn 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 %	0.170 - 0.230	Normalizing or Quenching or Solution Annealing	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.000 - 1.600		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	0.300 max.		
Molybdenum	Mo %	0.150 max.		
Nickel	Ni %	0.400 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	450 - 650
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	35 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G20Mn5	BS	British	Plate, Tubes and Forging
1.6220	ISO	International	Casting
G20Mn5	ISO	International	Casting
SCC 3	JIS	Japan	Casting
SCPH 11-CF	JIS	Japan	Casting
SCW 520-CF	JIS	Japan	Casting
SCW 550	JIS	Japan	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

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