



Material - EN G20 Mo 5

Standard Specification for Steel Castings for Pressure Purposes; Steel Grades for Use at Room Temperature and Elevated Temperatures

Group - Ferrous Mild Steel Alloys

Sub Group - EN G20 Mo 5 Steel Castings for Pressure Purposes; Steel Grades for Use at Room Temperature and Elevated Temperatures

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 - 0.230	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 1.000		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Molybdenum	Mo %	0.400 - 0.600		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.400 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 440 - 590 Yield Strength in Mpa 245 min. Elongation in % 22 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 27 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA217 WC1	ASME	USA	Casting
J12524	UNS	USA	Casting
SCPH 11	JIS	Japan	Casting
A352 LC1	ASTM	USA	Casting
G 20 MO5	DIN	Germany	Casting
G 20 MO5	UNI	Italy	Casting
A217 Grade WC1	ASTM	USA	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.