



Material - DIN G18Mo5

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - DIN G18Mo5 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		
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.800 - 1.200	Normalizing or Quenching or Solution Annealing	
Phosphorus	P %	0.020 max.		r Solution Annealing
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.300 max.		
Molybdenum	Mo %	0.450 - 0.650		
Nickel	Ni %	0.400 max.		•
Copper	Cu %	0.300 max.	Mechanical Properties	
Vanadium	V %	0.050 max.	Tensile Strength in Mpa	440 - 590
Iron	Fe %	Balance	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	23 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardn <mark>ess in BH</mark> N	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
EN 10213 G18Mo5	BS	British	Plate, Tubes and Forging	
1.5422	ISO	International	Casting	
G18Mo5	ISO	International	Casting	
G18Mo5	EN	European Union	Casting	
G18Mo5	MSZ	Hungary	Casting	
G18Mo5	UNI	Italy	Casting	
G18Mo5	PN	Poland	Poland 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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