



Material - ISO G50CrMo4

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - ISO G50CrMo4 Mild Steel Alloys Bar and Rod

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Bar and Rod

Chemical Composition			Heat Treatment	
Carbon	C %	0.460 - 0.530	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.600 - 0.100		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.800 - 1.200		
Molybdenum	Mo %	0.150 - 0.250		
Copper	Cu %	0.300 max.		
Nickel	Ni %	0.400 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	900 - 1050
-	-	-	Yield Strength in Mpa	750 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	18 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
50CrMo4	EN	European Union	Bar and Rod
1.7228	EN	European Union	Bar and Rod
4151	NBR	Brazil	Bar and Rod
50CrMo4	ISO	International	Bar and Rod
SFCM 690 S	JIS	Japan	Bar and Rod
SFCM 740 S	JIS	Japan	Bar and Rod
SFCM 780 S	JIS	Japan	Bar and Rod

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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