



## Material - ISO 50CrMo4

## Standard Specification for Mild Steel Alloys Bar and Rod

**Group - Ferrous Mild Steel Alloys** 

Sub Group - ISO 50CrMo4 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 - 0.540		
Silicon	Si %	0.100 - 0.400	As Raw or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	0.500 - 0.800		alizing or Hardoning and
Phosphorus	P %	0.035 max.		•
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.900 - 1.200		
Molybdenum	Mo %	0.150 - 0.300		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-		Tensile Strength in Mpa	800 - 1300
-	-	-	Yield Strength in Mpa	550 min.
-	-	-	Elongation in %	9 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	248 max.
-	-	-	Impac <mark>t in Joule</mark>	15 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	
G50CrMo4	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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