

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	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.100 - 0.400		
Manganese	Mn %	0.500 - 0.800		
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.
-	-	-	Impact in Joule	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

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