



Material - EN 10083-3 1.6582

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - EN 10083-3 1.6582 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 %	0.300 - 0.380	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	1.300 - 1.700		
Molybdenum	Mo %	0.150 - 0.300		
Nickel	Ni %	1.300 - 1.700		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	800 - 950
-	-	-	Yield Strength in Mpa	600 min.
-	-	-	Elongation in %	13 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	As Per HT
-	-	-	Impact in Joule	45 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
34CrNiMo6	EN	European Union	Bar and Rod
P 1000 - 34CrNiMo6	AFNOR NF	France	Bar and Rod
P 880 - 34CrNiMo6	AFNOR NF	France	Bar and Rod
1.6579	UNE	Spain	Bar and Rod
G35CrNiMo6-6	UNE	Spain	Bar and Rod
1.6579	SS	Sweden	Bar and Rod
G35CrNiMo6-6	SS	Sweden	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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