



Material - EN 10083-3 1.6747

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - EN 10083-3 1.6747 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 %	0.260 - 0.330	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 %	0.025 max.		
Chromium	Cr %	1.200 - 1.500		
Molybdenum	Mo %	0.300 - 0.600		
Nickel	Ni %	3.300 - 4.300		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	900 - 1050
-	-	-	Yield Strength in Mpa	880 min.
-	-	-	Elongation in %	11 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	As Per HT
-	-	-	Impact in Joule	35 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
39NiCrMo16-6	EN	European Union	Bar and Rod
30 NCD 16	AIR	France	Bar and Rod
835 M 30	BS	British	Bar and Rod
35NiCrMo16	EN	European Union	Bar and Rod
1.6773	EN	European Union	Bar and Rod
35 NCD 16	AFNOR NF	France	Bar, Wire and Rod
SFNCM 1030 R	JIS	Japan	Forging

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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