



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - EN 10083-3 35NiCrMo16

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - EN 10083-3 35NiCrMo16 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 %	0.320 - 0.390	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 %	1.600 - 2.000		
Molybdenum	Mo %	0.250 - 0.450		
Nickel	Ni %	3.600 - 4.100		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 1000 - 1200 Yield Strength in Mpa 800 min. Elongation in % 11 min. Reduction of Area in % - Hardness in BHN As Per HT Impact in Joule 45 J @ RT	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.6773	EN	European Union	Bar and Rod
35 NCD 16	AFNOR NF	France	Bar, Wire and Rod
835 M 30	BS	British	Bar and Rod
SFNCM 1030 R	JIS	Japan	Forging
SFNCM 830 R	JIS	Japan	Forging
SFNCM 880 R	JIS	Japan	Forging
SFNCM 930 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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