

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

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

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