Material: EN 10083-3 39NiCrMo16-6

Standard Specification for Mild Steel Alloys Bar and Rod

Group: *Ferrous Mild Steel Alloys*
Sub Group: *EN 10083-3 39NiCrMo16-6 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		
Carbon	C %	0.260 - 0.330
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Raw or Annealing or Normalizing or Hardening and Tempering

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**
1.6747	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

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