Material: JIS SFNCM 830 R

Standard Specification for Nickel Chromium Molybdenum Steel Forgings

Group: *Ferrous Mild Steel Alloys*

Sub Group: *JIS SFNCM 830 R Nickel Chromium Molybdenum Steel Forgings*

Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*

Grade Belongs to the Industry: *Forging*

Chemical Composition		
Carbon	C %	0.500 max.
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.350 - 1.000
Phosphorus	P %	0.030 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	0.400 - 3.500
Molybdenum	Mo %	0.150 - 0.700
Nickel	Ni %	0.400 - 3.500
Copper	Cu %	0.030 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	830 - 980
Yield Strength in Mpa	610 min.
Elongation in %	12 min.
Reduction of Area in %	34 min.
Hardness in BHN	241 min.
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
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
835 M 30	BS	British	Bar and Rod
SFNCM 1030 R	JIS	Japan	Forging
SFNCM 880 R	JIS	Japan	Forging
SFNCM 930 R	JIS	Japan	Forging

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