

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			Heat Treatment	
Carbon	C %	0.500 max.	As Raw or Annealing or Normalizing or Hardening and Tempering	
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		
-	-	-	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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