

Material: ISO 31 CrNiMo 8

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: ISO 31 CrNiMo 8 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 %	0.270 - 0.340	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.100 - 0.400		
Manganese	Mn %	0.300 - 0.600		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	1.800 - 2.200		
Molybdenum	Mo %	0.300 - 0.500		
Nickel	Ni %	1.800 - 2.200		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	930 - 1230
-	-	-	Yield Strength in Mpa	750 min.
-	-	-	Elongation in %	12 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	248 max.
-	-	-	Impact in Joule	35 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
30CrNiMo8	EN	European Union	Bar and Rod
1.658	EN	European Union	Bar and Rod
P 1000 - 30CrNiMo8	AFNOR NF	France	Bar and Rod
30 CND 8	AFNOR NF	France	Bar and Rod
NCMo 6 Z	MSZ	Hungary	Bar and Rod
NCMo 6	MSZ	Hungary	Bar and Rod
30CrNiMo8	ISO	International	Bar and Rod

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