

Material: CSN 39 NiCrMo 3

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: CSN 39 NiCrMo 3 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 %	0.350 - 0.430	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 %	0.035 max.		
Chromium	Cr %	0.600 - 1.000		
Molybdenum	Mo %	0.150 - 0.250		
Nickel	Ni %	0.700 - 1.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	740 - 1180
-	-	-	Yield Strength in Mpa	540 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in BHN	295 max.
-	-	-	Impact in Joule	35 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
39NiCrMo3	EN	European Union	Bar and Rod
1.651	EN	European Union	Bar and Rod
NCMo 4	MSZ	Hungary	Bar, Wire and Rod
1.651	BDS	Bulgaria	Bar and Rod
1.651	DIN	Germany	Bar and Rod
39 NiCrMo 3	DIN	Germany	Bar and Rod
1.651	SFS	Finland	Bar and Rod

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