

## Material: MSZ NCMo 4

### Standard Specification for Mild Steel Alloys Bar, Wire and Rod

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** MSZ NCMo 4 Mild Steel Alloys Bar, Wire and Rod

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

**Grade Belongs to the Industry:** Bar, Wire and Rod

Chemical Composition			Heat Treatment	
Carbon	C %	0.360 - 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 %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	0.600 - 0.900		
Molybdenum	Mo %	0.150 - 0.300		
Nickel	Ni %	0.700 - 1.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	750 - 1200
-	-	-	Yield Strength in Mpa	540 min.
-	-	-	Elongation in %	10 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	229 max.
-	-	-	Impact in Joule	30 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
1.651	BDS	Bulgaria	Bar and Rod
39 NiCrMo 3	CSN	Czech Republic	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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