Material: ISO 33MnCrB5-2

Standard Specification for Mild Steel Alloys Bar and Rod

Group: *Ferrous Mild Steel Alloys*
Sub Group: *ISO 33MnCrB5-2 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		
Carbon	C %	0.300 - 0.360
Silicon	Si %	0.400 max.
Manganese	Mn %	1.200 - 1.500
Phosphorus	P %	0.025 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.300 - 0.600
Boron	B %	0.0008 - 0.0050
Copper	Cu %	0.400 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	900 - 1300
Yield Strength in Mpa	750 min.
Elongation in %	13 min.
Reduction of Area in %	50 min.
Hardness in BHN	255 max.
Impact in Joule	50 J @ RT

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
33MnCrB5-2	EN	European Union	Bar and Rod
1.7185	EN	European Union	Bar and Rod
1.7185	ONORM	Australia	Bar and Rod
33MnCrB5-2	ONORM	Australia	Bar and Rod
1.7185	NBN	Belgium	Bar and Rod
33MnCrB5-2	NBN	Belgium	Bar and Rod
1.7185	SFS	Finland	Bar and Rod

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