

Material: EN 10083-3 20MnB5

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: EN 10083-3 20MnB5 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 %	0.170 - 0.230
Silicon	Si %	0.400 max.
Manganese	Mn %	1.100 - 1.400
Phosphorus	P %	0.025 max.
Sulphur	S %	0.035 max.
Boron	B %	0.0008 - 0.0050
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	750 - 900
Yield Strength in Mpa	600 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in BHN	As Per HT
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.5530	EN	European Union	Bar and Rod
20 MB 5	AFNOR NF	France	Bar, Wire and Rod
20MnB5	ISO	International	Bar and Rod
1.553	UNI	Italy	Steel and Strip
20MnB5	UNI	Italy	Steel and Strip
1.553	BS	British	Steel and Strip
20MnB5	BS	British	Steel and Strip

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