

## Material: PN 38 MB 5

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** PN 38 MB 5 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 %	0.360 - 0.420	As Raw or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	1.150 - 1.450		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.035 max.		
Boron	B %	0.0008 - 0.0050		
Iron	Fe %	Balance		
-	-	-		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa 850 - 1250 Yield Strength in Mpa 700 min. Elongation in % 12 min. Reduction of Area in % 50 min. Hardness in HRC 45 max. Impact in Joule 60 J @ RT	
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-	-	-		
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
38MnB5	EN	European Union	Bar and Rod
1.5532	EN	European Union	Bar and Rod
38 MB 5	AFNOR NF	France	Bar, Wire and Rod
39MnB5	ISO	International	Bar and Rod
1.5532	NBN	Belgium	Bar and Rod
38 MB 5	NBN	Belgium	Bar and Rod
1.5532	PN	Poland	Bar and Rod

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