GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - EN 10083-3 38MnB5

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - EN 10083-3 38MnB5 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 %	0.360 - 0.420
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

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

Mechanical Properties	
Tensile Strength in Mpa	850 - 1050
Yield Strength in Mpa	700 min.
Elongation in %	12 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**
1.5532	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
38 MB 5	PN	Poland	Bar and Rod

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com