GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ISO 20MnB5
Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys
Sub Group - ISO 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			Heat Treatment	
Carbon	C %	0.170 - 0.230		
Silicon	Si %	0.300 max.		
Manganese	Mn %	1.100 - 1.400	As Raw or Annealing or Normalizing or Hardening and Tempering	
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Boron	B %	0.0008 - 0.0050		
Chromium	Cr %	0.300 max.		
Copper	Cu %	0.250 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	630 min.
-	-	-	Yield Strength in Mpa	600 min.
-	-	-	Elongation in %	14 min.
-	-	-	Reduction of Area in %	55 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
20MnB5	EN	European Union	Bar and Rod
1.553	EN	European Union	Bar and Rod
20 MB 5	AFNOR NF	France	Bar, Wire 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

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

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