



Material - UNI 20MnB5

Standard Specification for Mild Steel Alloys Steel and Strip

Group - Ferrous Mild Steel Alloys

Sub Group - UNI 20MnB5 Mild Steel Alloys Steel and Strip

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Steel and Strip

Chemical Composition			Heat Treatment	
Carbon	C %	0.170 - 0.230	As Raw or Annealing or Normalizing or Hardening and Tempering	
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		
Copper	Cu %	0.400 max.		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	540 min.
-	-	-	Yield Strength in Mpa	430 min.
-	-	-	Elongation in %	14 min.
-	-	-	Reduction of Area in %	55 min.
-	-	-	Hardness in HRC	34 min.
-	-	-	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
20MnB5	ISO	International	Bar and Rod
1.553	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.