

Material - EN 10083-3 33MnCrB5-2

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - EN 10083-3 33MnCrB5-2 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 % | 0.300 - 0.360 | | |
| Silicon | Si % | 0.400 max. | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Manganese | Mn % | 1.200 - 1.500 | | alizing or Hardoning and |
| Phosphorus | P % | 0.025 max. | | e e |
| Sulphur | S % | 0.035 max. | | |
| Chromium | Cr % | 0.300 - 0.600 | | |
| Boron | В % | 0.0008 - 0.0050 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 900 - 1100 |
| - | - | - | Yield Strength in Mpa | 750 min. |
| - | - | - | Elongation in % | 13 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | As Per HT |
| - | - | - | Impac <mark>t in Joule</mark> | 50 J @ RT |

| Cross Reference Table | | | | |
|-----------------------|----------|----------------|------------------------------|--|
| Material | Standard | Country | Grade Belong to the Industry | |
| 1.7185 | EN | European Union | Bar and Rod | |
| 33MnCrB5-2 | ISO | International | Bar and Rod | |
| 1.7185 | ONORM | Australia | Bar and Rod | |
| 33MnCrB5-2 | ONORM | Australia | Bar and Rod | |
| 1.7185 | NBN | Belgium | Bar and Rod | |
| 33MnCrB5-2 | NBN | Belgium | Bar and Rod | |
| 1.7185 | SFS | Finland | 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

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