



Material - CSN 1.5531

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - CSN 1.5531 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 % | 0.270 - 0.330 | 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 | | |
| - | - | - | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 800 - 1150 |
| - | - | - | Yield Strength in Mpa | 650 min. |
| - | - | - | Elongation in % | 13 min. |
| - | - | - | Reduction of Area in % | 50 min. |
| - | - | - | Hardness in HRC | 40 max. |
| - | - | - | Impact in Joule | 60 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 30MnB5 | EN | European Union | Bar and Rod |
| 1.5531 | EN | European Union | Bar and Rod |
| 30MnB5 | ISO | International | Bar and Rod |
| 1.5531 | DIN | Germany | Bar and Rod |
| 30MnB5 | DIN | Germany | Bar and Rod |
| 1.5531 | BDS | Bulgaria | Bar and Rod |
| 30MnB5 | BDS | Bulgaria | 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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