



## Material - EN 10083-3 1.7220

### Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - EN 10083-3 1.7220 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 - 0.370 | As Raw or Annealing or Normalizing or Hardening and Tempering |           |
| Silicon              | Si % | 0.400 max.    |   |           |
| Manganese            | Mn % | 0.600 - 0.900 |   |           |
| Phosphorus           | P %  | 0.025 max.    |   |           |
| Sulphur              | S %  | 0.035 max.    |   |           |
| Chromium             | Cr % | 0.900 - 1.200 |   |           |
| Molybdenum           | Mo % | 0.150 - 0.300 |   |           |
| Iron                 | Fe % | Balance       |   |           |
| -                    | -    | -             | Mechanical Properties   |           |
| -                    | -    | -             | Tensile Strength in Mpa                                       | 700 - 850 |
| -                    | -    | -             | Yield Strength in Mpa   | 450 min.  |
| -                    | -    | -             | Elongation in %   | 15 - 60   |
| -                    | -    | -             | Reduction of Area in %  | -         |
| -                    | -    | -             | Hardness in BHN   | As Per HT |
| -                    | -    | -             | Impact in Joule   | 45 J @ RT |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 34CrMo4               | EN       | European Union | Bar and Rod                  |
| 34CrMoS4              | EN       | European Union | Bar and Rod                  |
| 1.7226                | EN       | European Union | Bar and Rod                  |
| P 880 - 34CrMo4       | AFNOR NF | France         | Bar and Rod                  |
| CMo 3 Z               | MSZ      | Hungary        | Bar and Rod                  |
| 34 CrMo 4 E           | ISO      | International  | Bar and Rod                  |
| 34 CrMo 4 E           | JIS      | Japan          | 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](mailto:marketing@gravitycastindia.com)**

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