

## Material: SFS 1.7221

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** SFS 1.7221 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 %  | 0.220 - 0.290 | As Raw or Annealing or Normalizing or Hardening and Tempering                                                                                                                                                |  |
| Silicon              | Si % | 0.400 max.    |                                                                                                                                                                                                              |  |
| Manganese            | Mn % | 0.500 - 0.800 |                                                                                                                                                                                                              |  |
| Phosphorus           | P %  | 0.025 max.    |                                                                                                                                                                                                              |  |
| Sulphur              | S %  | 0.020 max.    |                                                                                                                                                                                                              |  |
| Chromium             | Cr % | 0.800 - 1.200 |                                                                                                                                                                                                              |  |
| Molybdenum           | Mo % | 0.150 - 0.300 |                                                                                                                                                                                                              |  |
| Copper               | Cu % | 0.300 max.    |                                                                                                                                                                                                              |  |
| Nickel               | Ni % | 0.400 max.    |                                                                                                                                                                                                              |  |
| Vanadium             | V %  | 0.050 max.    |                                                                                                                                                                                                              |  |
| Iron                 | Fe % | Balance       | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 550 - 850<br>Yield Strength in Mpa 300 min.<br>Elongation in % 10 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule 18 J @ RT |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                                              |  |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 25CrMo4               | EN       | European Union | Bar and Rod                  |
| 1.7218                | EN       | European Union | Bar and Rod                  |
| 25CrMoS4              | EN       | European Union | Bar and Rod                  |
| 1.7213                | EN       | European Union | Bar and Rod                  |
| 25 CrMo 4 E           | ISO      | International  | Bar and Rod                  |
| 25 CrMo 4 E           | JIS      | Japan          | Bar and Rod                  |
| 25CrMoS4              | SFS      | Finland        | Bar and Rod                  |

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