



Material - BS 1.7025

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - BS 1.7025 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 % | 0.420 - 0.500 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Silicon | Si % | 0.400 max. | | |
| Manganese | Mn % | 0.500 - 0.800 | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.020 - 0.040 | | |
| Chromium | Cr % | 0.400 - 0.600 | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 650 - 1100 |
| - | - | - | Yield Strength in Mpa | 400 min. |
| - | - | - | Elongation in % | 12 min. |
| - | - | - | Reduction of Area in % | 35 min. |
| - | - | - | Hardness in BHN | 255 max. |
| - | - | - | Impact in Joule | 30 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 46Cr2 | EN | European Union | Bar and Rod |
| 1.7006 | EN | European Union | Bar and Rod |
| 46 Cr 2 E | ISO | International | Bar and Rod |
| 46 Cr 2 E | JIS | Japan | Bar and Rod |
| 1.7025 | AFNOR NF | France | Bar and Rod |
| 46 CrS 2 | AFNOR NF | France | Bar and Rod |
| 46 CrS 2 | BS | British | 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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