

Material: EN 10083-3 46Cr2

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: EN 10083-3 46Cr2 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 % | 0.025 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Chromium | Cr % | 0.400 - 0.600 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 650 - 800 Yield Strength in Mpa 400 min. Elongation in % 15 - 45 Reduction of Area in % - Hardness in BHN As Per HT Impact in Joule 35 J @ RT | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
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| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 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 |
| 1.7025 | BS | British | Bar and Rod |
| 46 CrS 2 | BS | British | Bar and Rod |

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