

Material: UNE F.1430

Standard Specification for Mild Steel Alloys Bar and Rod

Group: Ferrous Mild Steel Alloys

Sub Group: UNE F.1430 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 % | 0.470 - 0.550 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Silicon | Si % | 0.400 max. | | |
| Manganese | Mn % | 0.700 - 1.100 | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Chromium | Cr % | 0.900 - 1.200 | | |
| Vanadium | V % | 0.100 - 0.250 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 800 - 950 |
| - | - | - | Yield Strength in Mpa | 600 min. |
| - | - | - | Elongation in % | 13 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | As Per HT |
| - | - | - | Impact in Joule | 30 J @ RT |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 51CrV4 | EN | European Union | Bar and Rod |
| 1.8159 | EN | European Union | Bar and Rod |
| 35 NCD 16 | AFNOR NF | France | Bar and Rod |
| 50 CV 4 | AFNOR NF | France | Bar and Rod |
| 50 CV 4 | DIN | Germany | Bar and Rod |
| 15 260 | CSN | Czech Republic | Bar and Rod |
| CrV 3 | MSZ | Hungary | Bar and Rod |

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