

## Material: EN 10083-3 30CrNiMo8

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

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** EN 10083-3 30CrNiMo8 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 %  | 0.260 - 0.340 | 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 % | 1.800 - 2.200 |                                                               |            |
| Molybdenum           | Mo % | 0.300 - 0.500 |                                                               |            |
| Nickel               | Ni % | 1.800 - 2.200 |                                                               |            |
| Iron                 | Fe % | Balance       |                                                               |            |
| -                    | -    | -             | Mechanical Properties                                         |            |
| -                    | -    | -             | Tensile Strength in Mpa                                       | 900 - 1100 |
| -                    | -    | -             | Yield Strength in Mpa                                         | 700 min.   |
| -                    | -    | -             | Elongation in %                                               | 12 min.    |
| -                    | -    | -             | 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 |
| 1.6580                | EN       | European Union | Bar and Rod                  |
| P 1000 - 30CrNiMo8    | AFNOR NF | France         | Bar and Rod                  |
| 30 CND 8              | AFNOR NF | France         | Bar and Rod                  |
| NCMo 6 Z              | MSZ      | Hungary        | Bar and Rod                  |
| NCMo 6                | MSZ      | Hungary        | Bar and Rod                  |
| 30CrNiMo8             | ISO      | International  | Bar and Rod                  |
| 31 CrNiMo 8           | ISO      | International  | Bar and Rod                  |

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