



## Material - AFNOR NF P 1000 - 34CrNiMo6

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

Group - Ferrous Mild Steel Alloys

Sub Group - AFNOR NF P 1000 - 34CrNiMo6 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 %  | 0.300 - 0.380 | 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 %  | 0.035 max.    |   |  |
| Chromium             | Cr % | 1.300 - 1.700 |   |  |
| Molybdenum           | Mo % | 0.150 - 0.300 |   |  |
| Nickel               | Ni % | 1.300 - 1.700 |   |  |
| Iron                 | Fe % | Balance       |   |  |
| -                    | -    | -             | <b>Mechanical Properties</b><br>Tensile Strength in Mpa   1000 - 1150<br>Yield Strength in Mpa   770 min.<br>Elongation in %   10 min.<br>Reduction of Area in %   -<br>Hardness in BHN   280 min.<br>Impact in Joule   30 J @ RT |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 34CrNiMo6             | EN       | European Union | Bar and Rod                  |
| 1.6582                | EN       | European Union | Bar and Rod                  |
| P 880 - 34CrNiMo6     | AFNOR NF | France         | Bar and Rod                  |
| 1.6579                | UNE      | Spain          | Bar and Rod                  |
| G35CrNiMo6-6          | UNE      | Spain          | Bar and Rod                  |
| 1.6579                | SS       | Sweden         | Bar and Rod                  |
| G35CrNiMo6-6          | SS       | Sweden         | 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](mailto:marketing@gravitycastindia.com)**

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