

## Material: UNI 1.5530

### Standard Specification for Mild Steel Alloys Steel and Strip

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** UNI 1.5530 Mild Steel Alloys Steel and Strip

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries

**Grade Belongs to the Industry:** Steel and Strip

| Chemical Composition |      |                 | Heat Treatment  |           |
|----------------------|------|-----------------|---|-----------|
| Carbon               | C %  | 0.170 - 0.230   | As Raw or Annealing or Normalizing or Hardening and Tempering |           |
| Silicon              | Si % | 0.400 max.      |   |           |
| Manganese            | Mn % | 1.100 - 1.400   |   |           |
| Phosphorus           | P %  | 0.025 max.      |   |           |
| Sulphur              | S %  | 0.035 max.      |   |           |
| Boron                | B %  | 0.0008 - 0.0050 |   |           |
| Copper               | Cu % | 0.400 max.      |   |           |
| Iron                 | Fe % | Balance         |   |           |
| -                    | -    | -               | Mechanical Properties   |           |
| -                    | -    | -               | Tensile Strength in Mpa                                       | 540 min.  |
| -                    | -    | -               | Yield Strength in Mpa   | 430 min.  |
| -                    | -    | -               | Elongation in %   | 14 min.   |
| -                    | -    | -               | Reduction of Area in %  | 55 min.   |
| -                    | -    | -               | Hardness in HRC   | 34 min.   |
| -                    | -    | -               | Impact in Joule   | 60 J @ RT |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| 20MnB5                | EN       | European Union | Bar and Rod                  |
| 1.553                 | EN       | European Union | Bar and Rod                  |
| 20 MB 5               | AFNOR NF | France         | Bar, Wire and Rod            |
| 20MnB5                | ISO      | International  | Bar and Rod                  |
| 20MnB5                | UNI      | Italy          | Steel and Strip              |
| 1.553                 | BS       | British        | Steel and Strip              |
| 20MnB5                | BS       | British        | Steel and Strip              |

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