

# Material: IS 8500 Fe570

## Standard Specification for Structural Steel - MiCroalloyed

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** IS 8500 Fe570 Structural Steel - MiCroalloyed

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

**Grade Belongs to the Industry:** Plate and Bar

| Chemical Composition |      |            | Heat Treatment  |  |
|----------------------|------|------------|---|--|
| Carbon               | C %  | 0.220 max. | As Raw or Normalizing   |  |
| Silicon              | Si % | 0.450 max. |   |  |
| Manganese            | Mn % | 1.600 max. |   |  |
| Phosphorus           | P %  | 0.040 max. |   |  |
| Sulphur              | S %  | 0.040 max. |   |  |
| Cerium               | Ce % | 0.460 max. |   |  |
| Iron                 | Fe % | Balance    |   |  |
| -                    | -    | -          | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 570 min.<br>Yield Strength in Mpa 450 min.<br>Elongation in % 20 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |

| Cross Reference Table |          |         |   |
|-----------------------|----------|---------|---|
| Material              | Standard | Country | Grade Belong to the Industry              |
| Fe570B                | IS       | India   | Plate and Bar                             |
| 2062 E 350            | IS       | India   | Steel, Plate, Wire, Rod, Tube and Forging |
| 1018                  | SAE      | USA     | Steel, Plate, Wire, Rod, Tube and Forging |
| 1018                  | AISI     | USA     | Steel, Plate, Wire, Rod, Tube and Forging |
| A 830 G10180          | ASTM     | USA     | Steel, Plate, Wire, Rod, Tube and Forging |
| G10180                | UNS      | USA     | Steel, Bar, Wire, Rod, Tube and Forging   |
| SA-29 1018            | ASME     | USA     | Steel, Plate, Wire, Rod, Tube and Forging |

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)