

## Material: JIS SCW 490-CF

### Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** JIS SCW 490-CF Steel Castings for Pressure Purposes

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |            | Heat Treatment  |  |
|----------------------|------|------------|---|--|
| Carbon               | C %  | 0.200 max. | Normalizing or Quenching or Solution Annealing  |  |
| Silicon              | Si % | 0.800 max. |   |  |
| Manganese            | Mn % | 1.500 max. |   |  |
| Phosphorus           | P %  | 0.040 max. |   |  |
| Sulphur              | S %  | 0.040 max. |   |  |
| Iron                 | Fe % | Balance    |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 490 min.<br>Yield Strength in Mpa 315 min.<br>Elongation in % 20 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule 27 J @ RT |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |
| -                    | -    | -          |   |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| EN 10213 G17Mn5       | BS       | British | Plate, Tubes and Forging     |
| GS-16 Mn 5            | DIN      | Germany | Plate, Tubes and Forging     |
| SC 480                | JIS      | Japan   | Casting                      |
| SCW 480               | JIS      | Japan   | Casting                      |
| G 17 Mn 5             | MSZ      | Hungary | Casting                      |
| G 17 Mn 5             | UNI      | Italy   | Casting                      |
| G 17 Mn 5             | UNE      | Spain   | Casting                      |

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