

# Material: BS EN 10213 G24Mn6

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BS EN 10213 G24Mn6 Steel Castings for Pressure Purposes

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

**Grade Belongs to the Industry:** Plate, Tubes and Forging

| Chemical Composition |      |               | Heat Treatment  |  |
|----------------------|------|---------------|---|--|
| Carbon               | C %  | 0.200 - 0.250 | Normalizing or Quenching or Solution Annealing  |  |
| Silicon              | Si % | 0.600 max.    |   |  |
| Manganese            | Mn % | 1.500 - 1.800 |   |  |
| Phosphorus           | P %  | 0.020 max.    |   |  |
| Sulphur              | S %  | 0.015 max.    |   |  |
| Chromium             | Cr % | 0.300 max.    |   |  |
| Molybdenum           | Mo % | 0.150 max.    |   |  |
| Nickel               | Ni % | 0.400 max.    |   |  |
| Copper               | Cu % | 0.300 max.    |   |  |
| Vanadium             | V %  | 0.050 max.    |   |  |
| Iron                 | Fe % | Balance       | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 500 min.<br>Yield Strength in Mpa 190 min.<br>Elongation in % -<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule 50 J @ RT |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |
| -                    | -    | -             |   |  |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| G24Mn6                | EN       | European Union | Casting                      |
| G24Mn6                | AFNOR NF | France         | Casting                      |
| G24Mn6                | DIN      | Germany        | Casting                      |
| G24Mn6                | UNI      | Italy          | Casting                      |
| G24Mn6                | PN       | Poland         | Casting                      |
| -                     | -        | -              | -                            |
| -                     | -        | -              | -                            |

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