

## Material: EN 1.0213

### Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** EN 1.0213 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 %  | 0.060 - 0.100 | Normalizing or Quenching or Solution Annealing                                                                                                                                               |  |
| Silicon              | Si % | 0.100 max.    |                                                                                                                                                                                              |  |
| Manganese            | Mn % | 0.200 - 0.450 |                                                                                                                                                                                              |  |
| Phosphorus           | P %  | 0.020 max.    |                                                                                                                                                                                              |  |
| Sulphur              | S %  | 0.025 max.    |                                                                                                                                                                                              |  |
| Aluminium            | Al % | 0.020 - 0.060 |                                                                                                                                                                                              |  |
| Iron                 | Fe % | Balance       |                                                                                                                                                                                              |  |
| -                    | -    | -             | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 490 min.<br>Yield Strength in Mpa -<br>Elongation in % -<br>Reduction of Area in % 63 max.<br>Hardness in BHN -<br>Impact in Joule - |  |
| -                    | -    | -             |                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                              |  |
| -                    | -    | -             |                                                                                                                                                                                              |  |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| EN 10213 G17CrMo5-5   | BS       | British       | Plate, Tubes and Forging     |
| QSt 34-3              | DIN      | Germany       | Plate, Tubes and Forging     |
| C8C                   | ISO      | International | Casting                      |
| 1.0213                | AFNOR NF | France        | Casting                      |
| 1.0213                | DIN      | Germany       | Casting                      |
| 1.0213                | MSZ      | Hungary       | Casting                      |
| 1.0213                | UNI      | Italy         | Casting                      |

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