

# Material: BS EN 10213 G9Ni10

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BS EN 10213 GG9Ni10 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 |      |               |
|----------------------|------|---------------|
| Carbon               | C %  | 0.060 - 0.120 |
| Silicon              | Si % | 0.600 max.    |
| Manganese            | Mn % | 0.500 - 0.800 |
| Phosphorus           | P %  | 0.020 max.    |
| Sulphur              | S %  | 0.015 max.    |
| Chromium             | Cr % | 0.300 max.    |
| Molybdenum           | Mo % | 0.200 max.    |
| Nickel               | Ni % | 2.000 - 3.000 |
| Copper               | Cu % | 0.300 max.    |
| Vanadium             | V %  | 0.050 max.    |
| Iron                 | Fe % | Balance       |
| -                    | -    | -             |
| -                    | -    | -             |
| -                    | -    | -             |
| -                    | -    | -             |

| Heat Treatment                                 |
|--|
| Normalizing or Quenching or Solution Annealing |

| Mechanical Properties   |          |
|-------------------------|----------|
| Tensile Strength in Mpa | 280 min. |
| Yield Strength in Mpa   | -        |
| Elongation in %         | -        |
| Reduction of Area in %  | -        |
| Hardness in BHN         | -        |
| Impact in Joule         | -        |

| Cross Reference Table |          |                |                              |
|-----------------------|----------|----------------|------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry |
| A 352 Grade LC2       | ASTM     | USA            | Casting                      |
| A 352 J22500          | ASTM     | USA            | Casting                      |
| G 9 Ni 10             | NBN      | Belgium        | Casting                      |
| G 9 Ni 10             | BDS      | Bulgaria       | Casting                      |
| G 9 Ni 10             | CSN      | Czech Republic | Casting                      |
| G 9 Ni 10             | EN       | European Union | Casting                      |
| G 9 Ni 10             | SFS      | Finland        | Casting                      |

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