

## Material: ASTM A 743 J92500

### Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A 743 J92500 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 %  | 0.030 max.      | Normalizing or Quenching or Solution Annealing |          |
| Silicon              | Si % | 2.000 max.      |                                                |          |
| Manganese            | Mn % | 1.500 max.      |                                                |          |
| Phosphorus           | P %  | 0.040 max.      |                                                |          |
| Sulphur              | S %  | 0.040 max.      |                                                |          |
| Chromium             | Cr % | 17.000 - 21.000 |                                                |          |
| Nickel               | Ni % | 8.000 - 12.000  |                                                |          |
| Iron                 | Fe % | Balance         |                                                |          |
| -                    | -    | -               | Mechanical Properties                          |          |
| -                    | -    | -               | Tensile Strength in Mpa                        | 485 min. |
| -                    | -    | -               | Yield Strength in Mpa                          | 205 min. |
| -                    | -    | -               | Elongation in %                                | 35 min.  |
| -                    | -    | -               | Reduction of Area in %                         | -        |
| -                    | -    | -               | Hardness in BHN                                | -        |
| -                    | -    | -               | Impact in Joule                                | -        |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| GX2CrNi19-11          | BS       | British       | Plate, Tubes and Forging     |
| 1.4309                | ISO      | International | Casting                      |
| GX2CrNi19-11          | ISO      | International | Casting                      |
| A 743 Grade CF-3      | ASTM     | USA           | Casting                      |
| A 744 Grade CF-3      | ASTM     | USA           | Casting                      |
| GX2CrNi19-11          | SFS      | Finland       | Casting                      |
| GX2CrNi19-11          | DIN      | Germany       | Casting                      |

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