

# Material: ISO GX2CrNi19-11

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ISO GX2CrNi19-11 Steel Castings for Pressure Purposes

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |                 |
|----------------------|------|-----------------|
| Carbon               | C %  | 0.030 max.      |
| Silicon              | Si % | 1.500 max.      |
| Manganese            | Mn % | 2.000 max.      |
| Phosphorus           | P %  | 0.035 max.      |
| Sulphur              | S %  | 0.025 max.      |
| Chromium             | Cr % | 18.000 - 20.000 |
| Nickel               | Ni % | 9.000 - 12.000  |
| Iron                 | Fe % | Balance         |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |

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

| Mechanical Properties   |           |
|-------------------------|-----------|
| Tensile Strength in Mpa | 440 min.  |
| Yield Strength in Mpa   | 185 min.  |
| Elongation in %         | 30 min.   |
| Reduction of Area in %  | -         |
| Hardness in BHN         | -         |
| Impact in Joule         | 80 J @ RT |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| GX2CrNi19-11          | BS       | British       | Plate, Tubes and Forging     |
| 1.4309                | ISO      | International | Casting                      |
| A 743 Grade CF-3      | ASTM     | USA           | Casting                      |
| A 743 J92500          | 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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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)



+91-99090 45075



[info@icastllp.com](mailto:info@icastllp.com)



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India