

## Material: ASTM A744 Grade CF3

### Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant for Severe Service

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A744 Grade CF3 Iron-Chromium-Nickel, Corrosion Resistant for Severe Service

**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.      | 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                     |
| J92500                | UNS      | USA            | Casting                                          |
| 304L                  | AISI     | USA            | Bar, Wire, Strip, Slit, Plate, Sheet and Forging |
| 1.4306                | DIN      | Germany        | Cold Rolled, Strips, Slit Coils and Sheets       |
| 1.4307                | EN       | European Union | Rod, Bars, Wire and Forging                      |
| 304 S 11              | BS       | British        | Bright Bars, Hot Rolled and Cold Rolled Coil     |
| SUS 304L              | JIS      | Japan          | Hot Rolled Equal Leg Angles                      |
| 04CH18N10             | GOST     | Russia         | Pipes, Fittings, Bar, Sheet and Forging          |

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)