



## Material - ASTM A351 CF10

**Standard Specification for Castings, Austenitic, for Pressure-Containing Parts**

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASTM A351 / 351M Castings, Austenitic, for Pressure-Containing Parts**

**Application - Intended for Valves, Pumps, General Engineering, Automobile and Other Industries**

**Grade Belongs to the Industry - Casting**

| Chemical Composition |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon               | C %  | 0.040 - 0.100   | Solution Annealing      |          |
| Silicon              | Si % | 2.000 max.      |                         |          |
| Manganese            | Mn % | 1.500 max.      |                         |          |
| Phosphorus           | P %  | 0.040 max.      |                         |          |
| Sulphur              | S %  | 0.040 max.      |                         |          |
| Chromium             | Cr % | 18.000 - 21.000 |                         |          |
| Nickel               | Ni % | 8.000 - 11.000  |                         |          |
| Molybdenum           | Mo % | 0.500 max.      |                         |          |
| 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                 |
| A743 CF10             | ASTM     | USA            | Casting                                      |
| 304                   | AISI     | USA            | Bar, Wire, Strip, Plate, Sheet and Forging   |
| 1.4308                | DIN      | Germany        | Casting                                      |
| 1.4301                | EN       | European Union | Forging                                      |
| 304 S 11              | BS       | British        | Bright Bars, Hot Rolled and Cold Rolled Coil |
| SUS 304               | JIS      | Japan          | Hot Rolled Equal Leg Angles                  |
| 08CH18N10             | GOST     | Russia         | Pipes, Fittings, Bar, Sheet and Forging      |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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