

## Material: ASTM A743 CF8

### Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** ASTM A743 / A743M Casting, Iron-Chromium-Nickel, corrosion Resistant Casting, for General Application

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

**Belongs to the Industry:** Casting

| Chemical Composition |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon               | C %  | 0.080 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 % | 18.000 - 21.000 |                         |          |
| Nickel               | Ni % | 8.000 - 11.000  |                         |          |
| 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                 |
| 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      |
| ASTM A 351 CF8        | ASTM     | USA            | Casting                                      |

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