

## Material - ASTM A743 CF3M

**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 %  | 0.030 max.      | Solution Annealing      |          |
| Silicon              | Si % | 1.500 max.      |                         |          |
| Manganese            | Mn % | 1.500 max.      |                         |          |
| Phosphorus           | P %  | 0.040 max.      |                         |          |
| Sulphur              | S %  | 0.040 max.      |                         |          |
| Chromium             | Cr % | 17.000 - 21.000 |                         |          |
| Nickel               | Ni % | 9.000 - 13.000  |                         |          |
| Molybdenum           | Mo % | 2.000 - 3.000   |                         |          |
| Iron                 | Fe % | Balance         | Mechanical Properties   |          |
| -                    | -    | -               | Tensile Strength in Mpa | 485 min. |
| -                    | -    | -               | Yield Strength in Mpa   | 205 min. |
| -                    | -    | -               | Elongation in %         | 30 min.  |
| -                    | -    | -               | Reduction of Area in %  | -        |
| -                    | -    | -               | Hardness in BHN         | -        |
| -                    | -    | -               | Impact in Joule         | -        |

| Cross Reference Table |          |                |                                              |
|-----------------------|----------|----------------|----------------------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry                 |
| 316L                  | AISI     | USA            | Bar, Wire, Strip, Plate, Sheet and Forging   |
| 1.4404                | DIN      | Germany        | Cold Rolled, Strips, Slit Coils and Sheets   |
| 1.4404                | EN       | European Union | Rod, Bars, Wire and Forging                  |
| 316 S 11              | BS       | British        | Bright Bars, Hot Rolled and Cold Rolled Coil |
| SUS 316L              | JIS      | Japan          | Hot Rolled Equal Leg Angles                  |
| 03CH17N14M3           | GOST     | Russia         | Pipes, Fittings, Bar, Sheet and Forging      |
| ASTM A 351 CF3M       | ASTM     | USA            | Casting                                      |

**For any further inquiries, please do not hesitate to contact us. You may visit our website at [AMTECH TECHNOCAST PVT. LTD.](http://AMTECH TECHNOCAST PVT. LTD.), call us at [+91 9879817994](tel:+919879817994), or email us at [manish@amtechtechnocast.com](mailto:manish@amtechtechnocast.com)**

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