

## Material - ASTM A351 CF10MC

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 %  | 0.100 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 % | 15.000 - 18.000 |                         |          |
| Nickel               | Ni % | 13.000 - 16.000 |                         |          |
| Molybdenum           | Mo % | 1.750 - 2.250   |                         |          |
| Other                | Ot % | 10°C - 1.200    |                         |          |
| Iron                 | Fe % | Balance         | Mechanical Properties   |          |
| -                    | -    | -               | Tensile Strength in Mpa | 485 min. |
| -                    | -    | -               | Yield Strength in Mpa   | 205 min. |
| -                    | -    | -               | Elongation in %         | 20 min.  |
| -                    | -    | -               | Reduction of Area in %  | -        |
| -                    | -    | -               | Hardness in BHN         | -        |
| -                    | -    | -               | Impact in Joule         | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| SA-351 CF10MC         | ASME     | USA     | Casting                      |
| 20CH20N14S2L          | GOST     | Russia  | Casting                      |
| GX25CrNiSi 20-14      | DIN      | Germany | Casting                      |
| LH 19 N 14 G          | PN       | Poland  | Casting                      |
| 1.4832                | DIN      | Germany | Casting                      |
| 7806 Grade 13         | IS       | India   | Casting                      |
| J92971                | UNS      | USA     | Steel                        |

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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