

## Material - ASTM A487 CA15(C)

### Standard Specification for Steel Castings Suitable for Pressure Service

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A487 / AA87M Steel Castings Suitable for Pressure Service

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

| Chemical Composition |      |                 | Heat Treatment                                    |          |
|----------------------|------|-----------------|---------------------------------------------------|----------|
| Carbon               | C %  | 0.150 max.      | Annealing or Normalising or Hardening + Tempering |          |
| Silicon              | Si % | 1.500 max.      |                                                   |          |
| Manganese            | Mn % | 1.000 max.      |                                                   |          |
| Phosphorus           | P %  | 0.035 max.      |                                                   |          |
| Sulphur              | S %  | 0.035 max.      |                                                   |          |
| Chromium             | Cr % | 11.500 - 14.000 |                                                   |          |
| Nickel               | Ni % | 1.000 max.      |                                                   |          |
| Molybdenum           | Mo % | 0.500 max.      |                                                   |          |
| Copper               | Cu % | 0.500 max.      |                                                   |          |
| Vanadium             | V %  | 0.050 max.      | Mechanical Properties                             |          |
| Tungsten             | W %  | 0.100 max.      | Tensile Strength in Mpa                           | 620 min. |
| Other                | Ot % | 0.500 max.      | Yield Strength in Mpa                             | 415 min. |
| Iron                 | Fe % | Balance         | Elongation in %                                   | 18 min.  |
| -                    | -    | -               | Reduction of Area in %                            | 35 min.  |
| -                    | -    | -               | Hardness in HB                                    | 235 min. |
| -                    | -    | -               | Impact in Joule                                   | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| A217 CA 15            | ASTM     | USA     | Casting                      |
| A487 CA 15D           | ASTM     | USA     | Casting                      |
| 5351                  | AMS      | USA     | Casting                      |
| 410                   | AISI     | USA     | Bar, Wire, Shape and Forging |
| 410 C 21              | BS       | British | Casting                      |
| 15Ch13L               | GOST     | Russia  | Casting                      |
| 385 G X 12 Cr 13      | SFS      | Finland | 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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