

## 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.      |   |  |
| Tungsten             | W %  | 0.100 max.      |   |  |
| Other                | Ot % | 0.500 max.      |   |  |
| Iron                 | Fe % | Balance         |   |  |
| -                    | -    | -               |   |  |
| -                    | -    | -               |   |  |

  

| Mechanical Properties   |          |
|-------------------------|----------|
| Tensile Strength in Mpa | 620 min. |
| Yield Strength in Mpa   | 415 min. |
| 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                      |

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