

## Material: ASTM A 567 Grade 2

**Standard Specification for Castings, Investment, Carbon and Low Alloy Steel for General Application:** *nd Cobalt alloy for High Strength at Elevated Temperatures*

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM A 567 Grade 2 Castings, Investment, Carbon and Low Alloy Steel for General Application and Cobalt alloy for High Strength at Elevated Temperatures

**Application:** Intended for Valve, Pump, General Engineering, Automotive, Medical and other Industries

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.450 - 0.550   | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 1.000 max.      |                                      |          |
| Manganese            | Mn % | 1.000 max.      |                                      |          |
| Chromium             | Cr % | 24.500 - 26.500 |                                      |          |
| Sulphur              | S %  | 0.040 max.      |                                      |          |
| Tungsten             | W %  | 7.000 - 8.000   |                                      |          |
| Phosphorus           | P %  | 0.040 max.      |                                      |          |
| Boron                | B %  | 0.005 - 0.015   |                                      |          |
| Iron                 | Fe % | 2.000 max.      | Mechanical Properties                |          |
| Nickel               | Ni % | 9.500 - 11.500  | Tensile Strength in Mpa              | 380 min. |
| Cobalt               | Co % | Balance         | Yield Strength in Mpa                | -        |
| -                    | -    | -               | Elongation in %                      | 10 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in BHN                      | -        |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| A 732 Grade 31        | ASTM     | USA     | Casting                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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