

## Material - ASTM A 567 Grade 2

Standard Specification for Castings, Investment, Carbon and Low Alloy Steel for General Application and 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   | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 380 min.<br>Yield Strength in Mpa -<br>Elongation in % 10 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| Iron                 | Fe % | 2.000 max.      |                                                                                                                                                                                              |  |
| Nickel               | Ni % | 9.500 - 11.500  |                                                                                                                                                                                              |  |
| Cobalt               | Co % | Balance         |                                                                                                                                                                                              |  |
| -                    | -    | -               |                                                                                                                                                                                              |  |
| -                    | -    | -               |                                                                                                                                                                                              |  |
| -                    | -    | -               |                                                                                                                                                                                              |  |

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