

## Material - ASTM B 546 N06617

Standard Specification for Electric Fusion Ni-Cr-Co-Mo Alloy, Ni-Cr-Fe-Al Alloy, Ni-Cr-Fe Alloy, and Ni-Cr-Fe-Si Alloy Pipe

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 546 N06617 Electric Fusion Ni-Cr-Co-Mo Alloy, Ni-Cr-Fe-Al Alloy, Ni-Cr-Fe Alloy, and Ni-Cr-Fe-Si Alloy Pipe

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

Grade Belongs to the Industry - Pipe

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.050 - 0.150   | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 1.000 max.      |                                      |          |
| Manganese            | Mn % | 1.000 max.      |                                      |          |
| Copper               | Cu % | 0.500 max.      |                                      |          |
| Sulphur              | S %  | 0.015 max.      |                                      |          |
| Chromium             | Cr % | 20.000 - 24.000 |                                      |          |
| Cobalt               | Co % | 10.000 - 15.000 |                                      |          |
| Molybdenum           | Mo % | 8.000 - 10.000  |                                      |          |
| Iron                 | Fe % | 3.000 max.      | Mechanical Properties                |          |
| Aluminium            | Al % | 0.800 - 1.500   | Tensile Strength in Mpa              | 655 min. |
| Nickel               | Ni % | Balance         | Yield Strength in Mpa                | 240 min. |
| -                    | -    | -               | Elongation in %                      | 30 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in BHN                      | -        |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B 166 N06617          | ASTM     | USA     | Rod, Bar and Wire            |
| B 167 N06617          | ASTM     | USA     | Pipe and Tube                |
| B 168 N06617          | ASTM     | USA     | Plate, Sheet and Strip       |
| B 564 N06617          | ASTM     | USA     | Forging                      |
| B 626 N06617          | ASTM     | USA     | Tube                         |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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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