

## Material - ASTM B 625 N08926

**Standard Specification for Ni-Fe-Cr-Mo-Cu-N Low-Carbon Alloy, Ni-Fe-Cr-Si Alloy, Plate, Sheet and Strip**

**Group - Non-Ferrous Nickel Alloys**

**Sub Group - ASTM B 625 N08926 Ni-Fe-Cr-Mo-Cu-N Low-Carbon Alloy, Ni-Fe-Cr-Si Alloy, Plate, Sheet and Strip**

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

**Grade Belongs to the Industry - Plate, Sheet and Strip**

| Chemical Composition |      |                 | Heat Treatment                                                                                                                                                                                      |  |
|----------------------|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Carbon               | C %  | 0.020 max.      | As-Cast or Annealing or Age Hardning                                                                                                                                                                |  |
| Silicon              | Si % | 0.500 max.      |                                                                                                                                                                                                     |  |
| Manganese            | Mn % | 2.000 max.      |                                                                                                                                                                                                     |  |
| Chromium             | Cr % | 19.000 - 21.000 |                                                                                                                                                                                                     |  |
| Sulphur              | S %  | 0.010 max.      |                                                                                                                                                                                                     |  |
| Molybdenum           | Mo % | 6.000 - 7.000   |                                                                                                                                                                                                     |  |
| Phosphorus           | P %  | 0.030 max.      |                                                                                                                                                                                                     |  |
| Copper               | Cu % | 0.500 - 1.500   | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 650 min.<br>Yield Strength in Mpa 295 min.<br>Elongation in % 35 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| Nitrogen             | N %  | 0.150 - 0.250   |                                                                                                                                                                                                     |  |
| Nickel               | Ni % | 24.000 - 26.000 |                                                                                                                                                                                                     |  |
| Iron                 | Fe % | Balance         |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |

| Cross Reference Table |          |         |                                          |
|-----------------------|----------|---------|------------------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry             |
| B 649 N08926          | ASTM     | USA     | Bar and Wire                             |
| A 182 F1925N          | ASTM     | USA     | Pipe Flanges, Forged Fittings and Valves |
| B 472 N08926          | ASTM     | USA     | Billets and Bars                         |
| B 673 N08926          | ASTM     | USA     | Pipe                                     |
| B 674 N08926          | ASTM     | USA     | Tube                                     |
| B 677 N08926          | ASTM     | USA     | Pipe and Tube                            |
| SB-625 N08926         | ASME     | USA     | Plate, Sheet and Strip                   |

**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)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.