



## Material - ASME SB-625 N08925

**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 - ASME SB-625 N08925 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 % | 1.000 max.      |                                      |          |
| Chromium             | Cr % | 19.000 - 21.000 |                                      |          |
| Sulphur              | S %  | 0.030 max.      |                                      |          |
| Molybdenum           | Mo % | 6.000 - 7.000   |                                      |          |
| Phosphorus           | P %  | 0.045 max.      |                                      |          |
| Copper               | Cu % | 0.800 - 1.500   |                                      |          |
| Nitrogen             | N %  | 0.100 - 0.200   |                                      |          |
| Nickel               | Ni % | 24.000 - 26.000 |                                      |          |
| Iron                 | Fe % | Balance         | Tensile Strength in Mpa              | 600 min. |
| -                    | -    | -               | Yield Strength in Mpa                | 295 min. |
| -                    | -    | -               | Elongation in %                      | 40 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in BHN                      | -        |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |   |
|-----------------------|----------|---------|---|
| Material              | Standard | Country | Grade Belong to the Industry            |
| B 649 N08925          | ASTM     | USA     | Bar and Wire                            |
| A 182 F1925           | ASTM     | USA     | Pipe Flanges, Forged Fittings and Valve |
| B 625 N08925          | ASTM     | USA     | Plate, Sheet and Strip                  |
| B 673 N08925          | ASTM     | USA     | Pipe                                    |
| B 674 N08925          | ASTM     | USA     | Tube                                    |
| B 677 N08925          | ASTM     | USA     | Pipe and Tube                           |
| SB-649 N08925         | ASME     | USA     | Bar and Wire                            |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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