

## Material - ASTM B 463 N08026

### Standard Specification for Nickel Alloy Bar and Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 463 N08026 Nickel Alloy Bar and Wire

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

Grade Belongs to the Industry - Bar and Wire

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.030 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 0.500 max.      |                                      |          |
| Manganese            | Mn % | 1.000 max.      |                                      |          |
| Copper               | Cu % | 2.000 - 4.000   |                                      |          |
| Sulphur              | S %  | 0.030 max.      |                                      |          |
| Chromium             | Cr % | 22.000 - 26.000 |                                      |          |
| Phosphorus           | P %  | 0.030 max.      |                                      |          |
| Molybdenum           | Mo % | 5.000 - 6.7000  |                                      |          |
| Nitrogen             | N %  | 0.100 - 0.160   | Mechanical Properties                |          |
| Nickel               | Ni % | 33.000 - 37.200 | Tensile Strength in Mpa              | 551 min. |
| Iron                 | Fe % | Balance         | Yield Strength in Mpa                | 241 min. |
| -                    | -    | -               | Elongation in %                      | 30 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in BHN                      | 217 max. |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                                       |
|-----------------------|----------|---------|---------------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry          |
| SB-462 N08026         | ASME     | USA     | Pipe Flange, Forged Fitting and Valve |
| B 464 N08026          | ASTM     | USA     | Pipe                                  |
| B 468 N08026          | ASTM     | USA     | Tube                                  |
| B 472 N08026          | ASTM     | USA     | Billets and Bars for Reforging        |
| B 473 N08026          | ASTM     | USA     | Bar and Wire                          |
| B 475 N08026          | ASTM     | USA     | Wire                                  |
| B 729 N08026          | ASTM     | USA     | Pipe and 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)**

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.