

## Material - ASTM B 335 N10629

### Standard Specification for Nickel-Molybdenum Alloy Rod

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 335 N10629 Nickel-Molybdenum Alloy Rod

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

Grade Belongs to the Industry - Rod

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.010 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 0.050 max.      |                                      |          |
| Manganese            | Mn % | 1.500 max.      |                                      |          |
| Phosphorus           | P %  | 0.040 max.      |                                      |          |
| Cobalt               | Co % | 2.500 max.      |                                      |          |
| Sulphur              | S %  | 0.010 max.      |                                      |          |
| Chromium             | Cr % | 0.500 - 1.500   |                                      |          |
| Iron                 | Fe % | 1.000 - 6.000   |                                      |          |
| Molybdenum           | Mo % | 26.000 - 30.000 |                                      |          |
| Aluminium            | Al % | 0.100 - 0.500   |                                      |          |
| Copper               | Cu % | 0.500 max.      | Mechanical Properties                |          |
| Nickel               | Ni % | Balance         | Tensile Strength in Mpa              | 760 min. |
| -                    | -    | -               | Yield Strength in Mpa                | 350 min. |
| -                    | -    | -               | Elongation in %                      | 40 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in HRB                      | 100 max. |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B 333 N10629          | ASTM     | USA     | Plate, Sheet and Strip       |
| B 564 N10629          | ASTM     | USA     | Forging                      |
| B 472 N10629          | ASTM     | USA     | Bar                          |
| B 619 N10629          | ASTM     | USA     | Pipe                         |
| B 622 N10629          | ASTM     | USA     | Pipe and Tube                |
| B 626 N10629          | 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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