

## Material - ASTM B 165 N04400

### Standard Specification for Nickel Pipe and Tube

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 165 N04400 Nickel Pipe and Tube

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

Grade Belongs to the Industry - Pipe and Tube

| Chemical Composition |      |                 | Heat Treatment                                                                                                                                                                                      |  |
|----------------------|------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Carbon               | C %  | 0.300 max.      | As-Cast or Annealing or Age Hardning                                                                                                                                                                |  |
| Silicon              | Si % | 0.500 max.      |                                                                                                                                                                                                     |  |
| Manganese            | Mn % | 2.000 max.      |                                                                                                                                                                                                     |  |
| Copper               | Cu % | 28.000 - 34.000 |                                                                                                                                                                                                     |  |
| Sulphur              | S %  | 0.024 max.      |                                                                                                                                                                                                     |  |
| Iron                 | Fe % | 2.500 max.      |                                                                                                                                                                                                     |  |
| Nickel               | Ni % | 63.000 min.     |                                                                                                                                                                                                     |  |
| -                    | -    | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 480 - 585<br>Yield Strength in Mpa 170 min.<br>Elongation in % 3 min.<br>Reduction of Area in % -<br>Hardness in HRC -<br>Impact in Joule - |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B 163 N04400          | ASTM     | USA     | Tube                         |
| B 127 N04400          | ASME     | USA     | Plate, Sheet and Strip       |
| SB 163 N04400         | ASTM     | USA     | Tube                         |
| Monel 400             | SAE      | USA     | Sheet, Strip and Plate       |
| SB 163 N04400         | ASTM     | USA     | Tube                         |
| B 164 N04400          | ASTM     | USA     | Rod, Bar and Wire            |
| NW4400                | JIS      | Japan   | 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)

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