

## Material - ASTM B 475 N08020

### Standard Specification for Nickel Alloy Round Weaving Wire

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 475 N08020 Nickel Alloy Round Weaving Wire

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

Grade Belongs to the Industry - Wire

| Chemical Composition |           |                 | Heat Treatment                       |          |
|----------------------|-----------|-----------------|--------------------------------------|----------|
| Carbon               | C %       | 0.070 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si %      | 1.000 max.      |                                      |          |
| Manganese            | Mn %      | 2.000 max.      |                                      |          |
| Copper               | Cu %      | 3.000 - 4.000   |                                      |          |
| Sulphur              | S %       | 0.035 max.      |                                      |          |
| Chromium             | Cr %      | 19.000 - 21.000 |                                      |          |
| Phosphorus           | P %       | 0.045 max.      |                                      |          |
| Molybdenum           | Mo %      | 2.000 - 3.000   |                                      |          |
| Nb + Ta              | Nb% + Ta% | 1.000 max.      | Mechanical Properties                |          |
| Nickel               | Ni %      | 32.000 - 38.000 | Tensile Strength in Mpa              | 690 min. |
| Iron                 | Fe %      | Balance         | Yield Strength in Mpa                | -        |
| -                    | -         | -               | Elongation in %                      | -        |
| -                    | -         | -               | Reduction of Area in %               | -        |
| -                    | -         | -               | Hardness in BHN                      | -        |
| -                    | -         | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                                       |
|-----------------------|----------|---------|---------------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry          |
| B 462 N08020          | ASTM     | USA     | Pipe Flange, Forged Fitting and Valve |
| B 463 N08020          | ASTM     | USA     | Plate, Sheet and Strip                |
| B 464 N08020          | ASTM     | USA     | Pipe                                  |
| B 468 N08020          | ASTM     | USA     | Tube                                  |
| B 472 N08020          | ASTM     | USA     | Billets and Bars for Reforging        |
| B 473 N08020          | ASTM     | USA     | Bar and Wire                          |
| B 729 N08020          | 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)

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