

# Material: ASTM B 626 N06022

## Standard Specification for Nickel and Nickel-Cobalt Alloy Tube

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 626 N06022 Nickel and Nickel-Cobalt Alloy Tube

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

**Grade Belongs to the Industry:** Tube

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.015 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 0.080 max.      |                                      |          |
| Manganese            | Mn % | 0.500 max.      |                                      |          |
| Cobalt               | Co % | 2.500 max.      |                                      |          |
| Sulphur              | S %  | 0.020 max.      |                                      |          |
| Chromium             | Cr % | 20.000 - 22.500 |                                      |          |
| Phosphorus           | P %  | 0.040 max.      |                                      |          |
| Molybdenum           | Mo % | 12.500 - 14.500 |                                      |          |
| Vanadium             | V %  | 0.350 max.      |                                      |          |
| Tungsten             | W %  | 2.500 - 3.500   |                                      |          |
| Iron                 | Fe % | 2.000 - 6.000   | Mechanical Properties                |          |
| Nickel               | Ni % | Balance         | Tensile Strength in Mpa              | 690 min. |
| -                    | -    | -               | Yield Strength in Mpa                | 310 min. |
| -                    | -    | -               | Elongation in %                      | 45 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in BHN                      | -        |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                                          |
|-----------------------|----------|---------|------------------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry             |
| B 576 N06022          | ASTM     | USA     | Forging                                  |
| B 574 N06022          | ASTM     | USA     | Rod                                      |
| B 575 N06022          | ASTM     | USA     | Plate, Sheet and Strip                   |
| B 462 N06022          | ASTM     | USA     | Pipe Flanges, Forged Fittings, and Valve |
| B 619 N06022          | ASTM     | USA     | Pipe                                     |
| B 622 N06022          | ASTM     | USA     | Pipe and Tube                            |
| N06022                | UNS      | USA     | Wire                                     |

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