

# Material: ASTM B 626 N06058

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

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 626 N06058 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 %  | 0.010 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 0.100 max.      |                                      |          |
| Manganese            | Mn % | 0.500 max.      |                                      |          |
| Chromium             | Cr % | 20.000 - 23.000 |                                      |          |
| Sulphur              | S %  | 0.010 max.      |                                      |          |
| Molybdenum           | Mo % | 18.500 - 21.000 |                                      |          |
| Phosphorus           | P %  | 0.015 max.      |                                      |          |
| Cobalt               | Co % | 0.300 max.      |                                      |          |
| Copper               | Cu % | 0.500 max.      |                                      |          |
| Aluminium            | Al % | 0.400 max.      |                                      |          |
| Iron                 | Fe % | 1.500 max.      | Mechanical Properties                |          |
| Tungsten             | W %  | 0.300 max.      | Tensile Strength in Mpa              | 760 min. |
| Nitrogen             | N %  | 0.020 - 0.150   | Yield Strength in Mpa                | 360 min. |
| Nickel               | Ni % | Balance         | Elongation in %                      | 40 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
|                      |      |                 | Hardness in BHN                      | -        |
|                      |      |                 | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B 564 N06058          | ASTM     | USA     | Forging                      |
| B 574 N06058          | ASTM     | USA     | Rod                          |
| B 575 N06058          | ASTM     | USA     | Plate, Sheet and Strip       |
| B 619 N06058          | ASTM     | USA     | Pipe                         |
| B 622 N06058          | ASTM     | USA     | Pipe and Tube                |
| SB-564 N06058         | ASME     | USA     | Forging                      |
| SB-574 N06058         | ASME     | USA     | Rod                          |

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