

# Material: ASTM B 729 N08024

## Standard Specification for Seamless Nickel-Iron-Chromium-Molybdenum-Copper Alloy Pipe and Tube

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 729 N08024 Seamless Nickel-Iron-Chromium-Molybdenum-Copper Alloy 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 %       | 0.030 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si %      | 0.500 max.      |                                      |          |
| Manganese            | Mn %      | 1.000 max.      |                                      |          |
| Copper               | Cu %      | 0.500 - 1.500   |                                      |          |
| Sulphur              | S %       | 0.035 max.      |                                      |          |
| Chromium             | Cr %      | 22.500 - 25.000 |                                      |          |
| Phosphorus           | P %       | 0.035 max.      |                                      |          |
| Molybdenum           | Mo %      | 3.500 - 5.000   |                                      |          |
| Nb + Ta              | Nb% + Ta% | 0.150 - 0.350   |                                      |          |
| Nickel               | Ni %      | 35.000 - 40.000 | Mechanical Properties                |          |
| Iron                 | Fe %      | Balance         | Tensile Strength in Mpa              | 550 min. |
| -                    | -         | -               | Yield Strength in Mpa                | 240 min. |
| -                    | -         | -               | Elongation in %                      | 30 min.  |
| -                    | -         | -               | Reduction of Area in %               | -        |
| -                    | -         | -               | Hardness in BHN                      | -        |
| -                    | -         | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                                       |
|-----------------------|----------|---------|---------------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry          |
| B 463 N08024          | ASTM     | USA     | Plate, Sheet and Strip                |
| SB-462 N08024         | ASME     | USA     | Pipe Flange, Forged Fitting and Valve |
| B 464 N08024          | ASTM     | USA     | Pipe                                  |
| B 472 N08024          | ASTM     | USA     | Billets and Bars for Reforging        |
| B 473 N08024          | ASTM     | USA     | Bar and Wire                          |
| B 475 N08024          | ASTM     | USA     | Wire                                  |
| SB-464 N08024         | ASME     | USA     | Pipe and Tube                         |

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