

## Material: ASME SB-462 N08024

### Standard Specification for Forged or Rolled Alloy Pipe Flanges, Forged Fittings and Valves and Parts for Corrosive High-Temperature Service

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASME SB-462 N08024 Forged or Rolled Alloy Pipe Flanges, Forged Fittings and Valves and Parts for Corrosive High-Temperature Service

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

**Grade Belongs to the Industry:** Pipe Flange, Forged Fitting and Valve

| 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 |                                      |          |
| Iron                 | Fe %      | Balance         | Mechanical Properties                |          |
| -                    | -         | -               |                                      |          |
| -                    | -         | -               |                                      |          |
| -                    | -         | -               |                                      |          |
| -                    | -         | -               |                                      |          |
| -                    | -         | -               |                                      |          |
|                      |           |                 | Tensile Strength in Mpa              | 551 min. |
|                      |           |                 | Yield Strength in Mpa                | 241 min. |
|                      |           |                 | Elongation in %                      | 30 min.  |
|                      |           |                 | Reduction of Area in %               | 50 min.  |
|                      |           |                 | 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         |
| 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                           |
| B 729 N08024          | ASTM     | USA     | Pipe and Tube                  |
| SB-464 N08024         | ASME     | USA     | Pipe and Tube                  |

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