

## Material: ASTM B 564 N10276

### Standard Specification for Nickel Alloy Forgings

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 564 N10276 Nickel Alloy Forgings

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

**Grade Belongs to the Industry:** Forging

| Chemical Composition |      |                 |
|----------------------|------|-----------------|
| Carbon               | C %  | 0.010 max.      |
| Silicon              | Si % | 0.080 max.      |
| Manganese            | Mn % | 1.000 max.      |
| Chromium             | Cr % | 14.500 - 16.500 |
| Sulphur              | S %  | 0.030 max.      |
| Molybdenum           | Mo % | 15.000 - 17.000 |
| Phosphorus           | P %  | 0.040 max.      |
| Cobalt               | Co % | 2.500 max.      |
| Iron                 | Fe % | 4.000 - 7.000   |
| Tungsten             | W %  | 3.000 - 4.500   |
| Vanadium             | V %  | 0.350 max.      |
| Nickel               | Ni % | Balance         |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |

| Heat Treatment                       |
|--------------------------------------|
| As-Cast or Annealing or Age Hardning |

| Mechanical Properties   |          |
|-------------------------|----------|
| Tensile Strength in Mpa | 690 min. |
| Yield Strength in Mpa   | 283 min. |
| 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 574 N10276          | ASTM     | USA     | Rod                                      |
| B 575 N10276          | ASTM     | USA     | Plate, Sheet and Strip                   |
| B 462 N10276          | ASTM     | USA     | Pipe Flanges, Forged Fittings, and Valve |
| B 619 N10276          | ASTM     | USA     | Pipe                                     |
| B 622 N10276          | ASTM     | USA     | Pipe and Tube                            |
| B 626 N10276          | ASTM     | USA     | Tube                                     |
| N10276                | UNS      | USA     | Casting                                  |

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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)