

## Material: ASTM B 688 N08367

### Standard Specification for Chromium-Nickel-Molybdenum-Iron Plate, Sheet and Strip

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 688 N08367 Chromium-Nickel-Molybdenum-Iron Plate, Sheet and Strip

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

**Grade Belongs to the Industry:** Plate, Sheet and Strip

| Chemical Composition |      |                 |
|----------------------|------|-----------------|
| Carbon               | C %  | 0.030 max.      |
| Silicon              | Si % | 1.000 max.      |
| Manganese            | Mn % | 2.000 max.      |
| Chromium             | Cr % | 20.000 - 22.000 |
| Sulphur              | S %  | 0.030 max.      |
| Molybdenum           | Mo % | 6.000 - 7.000   |
| Phosphorus           | P %  | 0.040 max.      |
| Nickel               | Ni % | 23.500 - 25.500 |
| Nitrogen             | N %  | 0.180 - 0.250   |
| Copper               | Cu % | 0.750 max.      |
| Iron                 | Fe % | Balance         |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |
| -                    | -    | -               |

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

| Mechanical Properties   |          |
|-------------------------|----------|
| Tensile Strength in Mpa | 655 min. |
| Yield Strength in Mpa   | 310 min. |
| Elongation in %         | 30 min.  |
| Reduction of Area in %  | -        |
| Hardness in HRC         | 100 max. |
| Impact in Joule         | -        |

| Cross Reference Table |          |         |                                          |
|-----------------------|----------|---------|------------------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry             |
| B 564 N08367          | ASTM     | USA     | Forging                                  |
| B 691 N08367          | ASTM     | USA     | Rod, Bar and Wire                        |
| B 462 N08367          | ASTM     | USA     | Pipe Flanges, Forged Fittings, and Valve |
| A 314 N08367          | ASTM     | USA     | Bar and Forging                          |
| B 472 N08367          | ASTM     | USA     | Billet and Bar                           |
| B 690 N08367          | ASTM     | USA     | Pipe and Tube                            |
| B 834 N08367          | ASTM     | USA     | Pipe Flanges, Forged Fittings, and Valve |

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