

# Material: DIN H-Ni99,96

## Standard Specification for Refined Nickel Alloy Castings

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** DIN H-Ni99,96 Refined Nickel Alloy Castings

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |             | Chemical Composition                 |           |             |
|----------------------|------|-------------|--------------------------------------|-----------|-------------|
| Carbon               | C %  | 0.015 max.  | Tellurium                            | Te %      | 0.0001 max. |
| Manganese            | Mn % | 0.0005 max. | Titanium                             | Ti %      | 0.0001 max. |
| Phosphorus           | P %  | 0.001 max.  | Zirconium                            | Zr %      | 0.001 max.  |
| Cobalt               | Co % | 0.010 max.  | Ni + Co                              | Ni% + Co% | 99.960 min. |
| Copper               | Cu % | 0.005 max.  | -                                    | -         | -           |
| Iron                 | Fe % | 0.020 max.  | <b>Heat Treatment</b>                |           |             |
| sulphur              | S %  | 0.0015 max. | As-Cast or Annealing or Age Hardning |           |             |
| Silver               | Ag % | 0.0005 max. | <b>Mechanical Properties</b>         |           |             |
| Arsenic              | As % | 0.001 max.  | Tensile Strength in Mpa              | -         |             |
| Bismuth              | Bi % | 0.0001 max. | Yield Strength in Mpa                | -         |             |
| Lead                 | Pb % | 0.0005 max. | Elongation in %                      | -         |             |
| Antimony             | Sb % | 0.0001 max. | Reduction of Area in %               | -         |             |
| Selenium             | Se % | 0.0002 max. | Hardness in BHN                      | -         |             |
| Tin                  | Sn % | 0.0001 max. | Impact in Joule                      | -         |             |
| Tantalum             | Ta % | 0.0005 max. |                                      |           |             |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| 2.4011                | DIN      | Germany | Casting                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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