

## Material: DIN NiFe46

### Standard Specification for Nickel and Nickel-Iron Alloy Casting

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** DIN NiFe46 Nickel and Nickel-Iron Alloy Casting

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |      |                 | Heat Treatment                       |           |
|----------------------|------|-----------------|--------------------------------------|-----------|
| Carbon               | C %  | 0.020 max.      | As-Cast or Annealing or Age Hardning |           |
| Silicon              | Si % | 0.300 max.      |                                      |           |
| Manganese            | Mn % | 0.600 max.      |                                      |           |
| Iron                 | Fe % | 46.000 - 49.000 |                                      |           |
| Nickel               | Ni % | Balance         |                                      |           |
| -                    | -    | -               |                                      |           |
| -                    | -    | -               |                                      |           |
| -                    | -    | -               |                                      |           |
| -                    | -    | -               |                                      |           |
| -                    | -    | -               |                                      |           |
|                      |      |                 | Mechanical Properties                |           |
| -                    | -    | -               | Tensile Strength in Mpa              | 540 - 820 |
| -                    | -    | -               | Yield Strength in Mpa                | -         |
| -                    | -    | -               | 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 |
| 2.4475                | DIN      | Germany | Casting                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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