

## Material: DIN 2.4530

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

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** DIN 2.4530 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 %  | 0.050 max.      | As-Cast or Annealing or Age Hardening                                                                                                                                                               |  |
| Silicon              | Si % | 0.400 max.      |                                                                                                                                                                                                     |  |
| Manganese            | Mn % | 1.000 max.      |                                                                                                                                                                                                     |  |
| Copper               | Cu % | 4.000 - 6.000   |                                                                                                                                                                                                     |  |
| Iron                 | Fe % | 12.000 - 16.000 |                                                                                                                                                                                                     |  |
| Molybdenum           | Mo % | 2.000 - 5.000   |                                                                                                                                                                                                     |  |
| Nickel               | Ni % | Balance         |                                                                                                                                                                                                     |  |
| -                    | -    | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 690 min.<br>Yield Strength in Mpa 283 min.<br>Elongation in % 40 min.<br>Reduction of Area in % -<br>Hardness in BHN -<br>Impact in Joule - |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |
| -                    | -    | -               |                                                                                                                                                                                                     |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| NiFe16CuMo            | DIN      | Germany | Casting                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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