

# Material: DIN NiCr 5 MnSi

## Standard Specification for Nickel-Chromium-Manganese Alloy Casting

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** DIN NiCr 5 MnSi Nickel-Chromium-Manganese Alloy Casting

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

**Grade Belongs to the Industry:** Casting

| Chemical Composition |           |               |
|----------------------|-----------|---------------|
| Carbon               | C %       | 0.100 max.    |
| Silicon              | Si %      | 2.000 max.    |
| Manganese            | Mn %      | 2.000 - 4.000 |
| Copper               | Cu %      | 0.500 max.    |
| Iron                 | Fe %      | 1.000 max.    |
| Chromium             | Cr %      | 5.000 max.    |
| Ni + Co              | Ni% + Co% | 90.000 min.   |
| -                    | -         | -             |
| -                    | -         | -             |
| -                    | -         | -             |
| -                    | -         | -             |
| -                    | -         | -             |
| -                    | -         | -             |
| -                    | -         | -             |
| -                    | -         | -             |
| -                    | -         | -             |

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

| Mechanical Properties   |   |
|-------------------------|---|
| Tensile Strength in Mpa | - |
| Yield Strength in Mpa   | - |
| Elongation in %         | - |
| Reduction of Area in %  | - |
| Hardness in BHN         | - |
| Impact in Joule         | - |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| 2.4151                | DIN      | Germany | Casting                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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