

Material: DIN 2.4602

Standard Specification for Nickel, Molybdenum and Chromium Alloy Casting

Group: Non-Ferrous Nickel Alloys

Sub Group: DIN 2.4602 Nickel, Molybdenum and Chromium 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 % | 0.010 max. | As-Cast or Annealing or Age Hardning | |
| Silicon | Si % | 0.080 max. | | |
| Manganese | Mn % | 0.500 max. | | |
| Chromium | Cr % | 20.000 - 22.500 | | |
| Cobalt | Co % | 2.500 max. | | |
| Molybdenum | Mo % | 12.500 - 14.500 | | |
| Iron | Fe % | 2.000 - 6.000 | | |
| Phosphorus | P % | 0.025 max. | | |
| Sulphur | S % | 0.015 max. | | |
| Vanadium | V % | 0.350 max. | | |
| | | | Mechanical Properties | |
| Tungsten | W % | 2.500 - 3.500 | Tensile Strength in Mpa | 690 - 950 |
| Nickel | Ni % | Balance | Yield Strength in Mpa | 310 min. |
| - | - | - | Elongation in % | 25 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | 240 max. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| NiCr21Mo14W | DIN | Germany | Casting |
| - | - | - | - |
| - | - | - | - |
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| - | - | - | - |
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