

# Material: AFNOR NF C-NiCr21Mo14Fe4W3

## Standard Specification for Castings, Nickel and Nickel Alloy

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** AFNOR NF C-NiCr21Mo14Fe4W3 Castings, Nickel and Nickel Alloy

**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 % | 0.800 max.      |                                      |          |
| Manganese            | Mn % | 1.000 max.      |                                      |          |
| Phosphorus           | P %  | 0.025 max.      |                                      |          |
| Sulphur              | S %  | 0.025 max.      |                                      |          |
| Chromium             | Cr % | 20.000 - 22.500 |                                      |          |
| Tungsten             | W %  | 2.500 - 3.500   |                                      |          |
| Molybdenum           | Mo % | 12.500 - 14.500 |                                      |          |
| Vanadium             | V %  | 0.350 max.      |                                      |          |
| Iron                 | Fe % | 2.000 - 6.000   | Mechanical Properties                |          |
| Nickel               | Ni % | Balance         | Tensile Strength in Mpa              | 550 min. |
| -                    | -    | -               | Yield Strength in Mpa                | 280 min. |
| -                    | -    | -               | 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 |
| A 494 CX2MW           | ASTM     | USA     | Casting                      |
| SA-494 CX2MW          | ASME     | USA     | Casting                      |
| NC6022                | AFNOR NF | France  | Casting                      |
| N26002                | UNS      | USA     | Casting                      |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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