

# Material: UNS N06040

## Standard Specification for Castings, Nickel and Nickel Alloy

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** UNS N06040 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 %  | 0.400 max.      | As-Cast or Annealing or Age Hardning  |  |
| Silicon              | Si % | 3.000 max.      |   |  |
| Manganese            | Mn % | 1.500 max.      |   |  |
| Chromium             | Cr % | 14.000 - 17.000 |   |  |
| Iron                 | Fe % | 11.000 max.     |   |  |
| Nickel               | Ni % | Balance         |   |  |
| -                    | -    | -               |   |  |
| -                    | -    | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 485 min.<br>Yield Strength in Mpa 195 min.<br>Elongation in % 10 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 |
| A 494 CY40            | ASTM     | USA     | Casting                      |
| SA-494 CY40 Class 1   | ASME     | USA     | Casting                      |
| SA-494 CY40 Class 2   | ASME     | USA     | Casting                      |
| C-NiCr15Fe            | AFNOR NF | France  | Casting                      |
| NC16Fe11-M            | AFNOR NF | France  | Casting                      |
| NC6040                | AFNOR NF | France  | Casting                      |
| NCRFC                 | JIS      | Japan   | Casting                      |

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