



Material - ASTM A 494 N12MV

Standard Specification for Castings, Nickel and Nickel Alloy

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM A 494 N12MV 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 % | 0.120 max. | | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.000 max. | As-Cast or Annealing or Age Hardning | |
| Phosphorus | P % | 0.030 max. | | |
| Sulphur | S % | 0.020 max. | | |
| Chromium | Cr % | 1.000 max. | | |
| Vanadium | V % | 0.200 - 0.600 | | |
| Molybdenum | Mo % | 26.000 - 30.000 | | - |
| Iron | Fe % | 4.000 - 6.000 | Mechanical Properties | |
| Nickel | Ni % | Balance | Tensile Strength in Mpa | 525 min. |
| - | - | | Yield Strength in Mpa | 275 min. |
| - | - | - | Elongation in % | 6 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impac <mark>t in Joule</mark> | - |

| Cross Reference Table | | | | |
|-----------------------|----------|---------|------------------------------|--|
| Material | Standard | Country | Grade Belong to the Industry | |
| SA-494 N12MV | ASME | USA | Casting | |
| C-NiMo30Fe5 | AFNOR NF | France | Casting | |
| NC0007 | AFNOR NF | France | Casting | |
| ND28-M | AFNOR NF | France | Casting | |
| - | - | - | - | |
| - | - | - | - | |
| - | - | - | - | |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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