



## Material - ASTM B 516 N06600

### Standard Specification for Nickel-Chromium-Iron Alloy Tubes

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM B 516 N06600 Nickel-Chromium-Iron Alloy Tubes

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

Grade Belongs to the Industry - Tube

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.150 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 0.500 max.      |                                      |          |
| Manganese            | Mn % | 1.000 max.      |                                      |          |
| Copper               | Cu % | 0.500 max.      |                                      |          |
| Sulphur              | S %  | 0.015 max.      |                                      |          |
| Chromium             | Cr % | 14.000 - 17.000 |                                      |          |
| Iron                 | Fe % | 6.000 - 10.000  |                                      |          |
| Nickel               | Ni % | 72.000 min.     |                                      |          |
| -                    | -    | -               |                                      |          |
|                      |      |                 | Mechanical Properties                |          |
| -                    | -    | -               | Tensile Strength in Mpa              | 550 min. |
| -                    | -    | -               | Yield Strength in Mpa                | 240 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 |
| B 564 N06600          | ASTM     | USA     | Forging                      |
| B 366 N06600          | ASTM     | USA     | Forging                      |
| B 517 N06600          | ASTM     | USA     | Pipe                         |
| B 564 N06600          | ASTM     | USA     | Forging                      |
| B 751 N06600          | ASTM     | USA     | Pipe                         |
| B 775 N06600          | ASTM     | USA     | Pipe                         |
| B 829 N06600          | ASTM     | USA     | Pipe                         |

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.