



## Material - ASTM SB-407 N08801

### Standard Specification for Nickel-Iron-Chromium Alloy Seamless Pipe and Tube

Group - Non-Ferrous Nickel Alloys

Sub Group - ASTM SB-407 N08801 Nickel-Iron-Chromium Alloy Seamless Pipe and Tube

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

Grade Belongs to the Industry - Pipe and Tube

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.100 max.      | As-Cast or Annealing or Age Hardning |          |
| Silicon              | Si % | 1.000 max.      |                                      |          |
| Manganese            | Mn % | 1.500 max.      |                                      |          |
| Chromium             | Cr % | 19.000 - 22.000 |                                      |          |
| Copper               | Cu % | 0.500 max.      |                                      |          |
| Sulphur              | S %  | 0.015 max.      |                                      |          |
| Titanium             | Ti % | 0.750 - 1.500   |                                      |          |
| Iron                 | Fe % | 39.500 max.     |                                      |          |
| Nickel               | Ni % | 30.000 - 35.000 |                                      |          |
| -                    | -    | -               |                                      |          |
|                      |      |                 | Mechanical Properties                |          |
|                      |      |                 | Tensile Strength in Mpa              | 450 min. |
|                      |      |                 | Yield Strength in Mpa                | 170 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 163 N08801          | ASTM     | USA     | Tube                         |
| B 407 N08801          | ASTM     | USA     | Pipe and Tube                |
| SB-163 N08801         | ASME     | USA     | Tube                         |
| N08801                | UNS      | USA     | Tube                         |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

**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)**

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