

## Material: ASTM B 409 N08800

### Standard Specification for Nickel-Iron-Chromium Alloy Plate, Sheet and Strip

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** ASTM B 409 N08800 Nickel-Iron-Chromium Alloy Plate, Sheet and Strip

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

**Grade Belongs to the Industry:** Plate, Sheet and Strip

| Chemical Composition |      |                 | Heat Treatment                       |          |
|----------------------|------|-----------------|--------------------------------------|----------|
| Carbon               | C %  | 0.100 max.      | As-Cast or Annealing or Age Hardning |          |
| Chromium             | Cr % | 19.000 - 23.000 |                                      |          |
| Silicon              | Si % | 1.000 max.      |                                      |          |
| Manganese            | Mn % | 1.500 max.      |                                      |          |
| Aluminium            | Al % | 0.150 - 0.600   |                                      |          |
| Sulphur              | S %  | 0.015 max.      |                                      |          |
| Copper               | Cu % | 0.750 max.      |                                      |          |
| Titanium             | Ti % | 0.150 - 0.600   |                                      |          |
| Iron                 | Fe % | 39.500 max.     |                                      |          |
| Nickel               | Ni % | 30.000 - 35.000 | Mechanical Properties                |          |
| -                    | -    | -               | Tensile Strength in Mpa              | 520 min. |
| -                    | -    | -               | Yield Strength in Mpa                | 205 min. |
| -                    | -    | -               | Elongation in %                      | 25 min.  |
| -                    | -    | -               | Reduction of Area in %               | -        |
| -                    | -    | -               | Hardness in HRC                      | 88 min.  |
| -                    | -    | -               | Impact in Joule                      | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B 163 N08800          | ASTM     | USA     | Tube                         |
| B 407 N08800          | ASTM     | USA     | Pipe and Tube                |
| B 408 N08800          | ASTM     | USA     | Rod and Bar                  |
| B 564 N08800          | ASTM     | USA     | Forging                      |
| NAS 800               | Gravity  | India   | Sheet                        |
| -                     | -        | -       | -                            |
| -                     | -        | -       | -                            |

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