



Material - ASME SB-409 N08890

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

Group - Non-Ferrous Nickel Alloys

Sub Group - ASME SB-409 N08890 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 % | 0.060 - 0.140 | As-Cast or Annealing or Age Hardning | |
| Silicon | Si % | 1.000 - 2.000 | | |
| Manganese | Mn % | 1.500 max. | | |
| Chromium | Cr % | 23.500 - 28.500 | | |
| Copper | Cu % | 0.750 max. | | |
| Sulphur | S % | 0.015 max. | | |
| Aluminium | Al % | 0.050 - 0.600 | | |
| Titanium | Ti % | 0.150 - 0.600 | | |
| Molybdenum | Mo % | 1.000 - 2.000 | | |
| Niobium | Nb % | 0.200 - 1.000 | | |
| Tantalum | Ta % | 0.100 - 0.600 | Mechanical Properties Tensile Strength in Mpa 520 min. Yield Strength in Mpa 205 min. Elongation in % 35 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| Nickel | Ni % | 40.000 - 45.000 | | |
| Iron | Fe % | Balance | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| B 408 N08890 | ASTM | USA | Rod and Bar |
| B 407 N08890 | ASTM | USA | Pipe and Tube |
| B 409 N08890 | ASTM | USA | Plate, Sheet and Strip |
| SB-408 N08890 | ASME | USA | Rod and Bar |
| SB-409 N08890 | ASME | USA | Plate, Sheet and Strip |
| - | - | - | - |
| - | - | - | - |

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