

## Material: JIS NW4400

### Standard Specification for Nickel Plate, Sheet and Strip

**Group:** Non-Ferrous Nickel Alloys

**Sub Group:** JIS NW4400 Nickel 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 %  | 0.300 max.      | As-Cast or Annealing or Age Hardning                                                                                                                                                                     |  |
| Silicon              | Si % | 0.500 max.      |                                                                                                                                                                                                          |  |
| Manganese            | Mn % | 2.000 max.      |                                                                                                                                                                                                          |  |
| Copper               | Cu % | 28.000 - 34.000 |                                                                                                                                                                                                          |  |
| Sulphur              | S %  | 0.024 max.      |                                                                                                                                                                                                          |  |
| Iron                 | Fe % | 2.500 max.      |                                                                                                                                                                                                          |  |
| Nickel               | Ni % | 63.000 min.     |                                                                                                                                                                                                          |  |
| -                    | -    | -               |                                                                                                                                                                                                          |  |
| -                    | -    | -               | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 450 min.<br>Yield Strength in Mpa 155 min.<br>Elongation in % 2 min.<br>Reduction of Area in % -<br>Hardness in HRC 76 min.<br>Impact in Joule - |  |
| -                    | -    | -               |                                                                                                                                                                                                          |  |
| -                    | -    | -               |                                                                                                                                                                                                          |  |
| -                    | -    | -               |                                                                                                                                                                                                          |  |
| -                    | -    | -               |                                                                                                                                                                                                          |  |
| -                    | -    | -               |                                                                                                                                                                                                          |  |
| -                    | -    | -               |                                                                                                                                                                                                          |  |
| -                    | -    | -               |                                                                                                                                                                                                          |  |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| B 163 N04400          | ASTM     | USA     | Tube                         |
| B 127 N04400          | ASME     | USA     | Plate, Sheet and Strip       |
| SB 163 N04400         | ASTM     | USA     | Tube                         |
| Monel 400             | SAE      | USA     | Sheet, Strip and Plate       |
| SB 163 N04400         | ASTM     | USA     | Tube                         |
| B 164 N04400          | ASTM     | USA     | Rod, Bar and Wire            |
| B 165 N04400          | ASTM     | USA     | Pipe and Tube                |

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