

## Material: JIS SUS 890L

### Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** JIS SUS 890L Chromium and Chromium-Nickel Stainless Steel for Pressure Vessels and for General Applications

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

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

| Chemical Composition |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon               | C %  | 0.020 max.      | Solution Annealing      |          |
| Silicon              | Si % | 1.000 max.      |                         |          |
| Manganese            | Mn % | 2.000 max.      |                         |          |
| Phosphorus           | P %  | 0.045 max.      |                         |          |
| Sulphur              | S %  | 0.030 max.      |                         |          |
| Chromium             | Cr % | 19.000 - 23.000 |                         |          |
| Molybdenum           | Mo % | 4.000 - 5.000   |                         |          |
| Nickel               | Ni % | 23.000 - 28.000 |                         |          |
| Copper               | Cu % | 1.000 - 2.000   | Mechanical Properties   |          |
| Iron                 | Fe % | Balance         | Tensile Strength in Mpa | 490 min. |
| -                    | -    | -               | Yield Strength in Mpa   | 215 min. |
| -                    | -    | -               | Elongation in %         | 35 min.  |
| -                    | -    | -               | Reduction of Area in %  | -        |
| -                    | -    | -               | Hardness in HB          | 187 max. |
| -                    | -    | -               | Impact in Joule         | -        |

| Cross Reference Table |          |                |                               |
|-----------------------|----------|----------------|-------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry  |
| A240 UNS N08904       | ASTM     | USA            | Steel, Plate, Sheet and Strip |
| TU Z 1 NCDU 25 20 04  | AFNOR NF | France         | Steel and Tube                |
| X1NiCrMoCu25 20 5     | EN       | European Union | Forging                       |
| X1NiCrMoCu25-20-5     | UNI      | Italy          | Steel, Plate, Sheet and Strip |
| X1NiCrMoCu25 20 5     | DIN      | Germany        | Rolling and Forging           |
| STS 890L              | KS       | Korea          | Steel, Plate, Sheet and Strip |
| 2CuMoCrNi 250         | STAS     | Romania        | Steel                         |

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