

## Material - ASTM A 959 S35315

**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 - ASTM A 959 S35315 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**

| Chemical Composition |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon               | C %  | 0.040 - 0.080   | Solution Annealing      |          |
| Silicon              | Si % | 1.200 - 2.000   |                         |          |
| Manganese            | Mn % | 2.000 max.      |                         |          |
| Phosphorus           | P %  | 0.045 max.      |                         |          |
| Sulphur              | S %  | 0.030 max.      |                         |          |
| Chromium             | Cr % | 24.000 - 26.000 |                         |          |
| Nickel               | Ni % | 34.000 - 36.000 |                         |          |
| Nitrogen             | N %  | 0.120 - 0.180   |                         |          |
| Cerium               | Ce % | 0.030 - 0.100   |                         |          |
| Iron                 | Fe % | Balance         | Mechanical Properties   |          |
| -                    | -    | -               | Tensile Strength in Mpa | 600 min. |
| -                    | -    | -               | Yield Strength in Mpa   | 260 min. |
| -                    | -    | -               | Elongation in %         | 25 min.  |
| -                    | -    | -               | Reduction of Area in %  | -        |
| -                    | -    | -               | Hardness in BHN         | -        |
| -                    | -    | -               | Impact in Joule         | -        |

| Cross Reference Table |          |                |                               |
|-----------------------|----------|----------------|-------------------------------|
| Material              | Standard | Country        | Grade Belong to the Industry  |
| A240 UNS S35315       | ASTM     | USA            | Steel, Plate, Sheet and Strip |
| S35315                | UNS      | USA            | Steel                         |
| A167 S35315           | ASTM     | USA            | Steel, Sheet, Plate and Strip |
| A312 S35315           | ASTM     | USA            | Steel and Pipe                |
| SA-240 UNS S35135     | ASME     | USA            | Steel                         |
| SA-312 UNS S35135     | ASME     | USA            | Steel and Pipe                |
| X 6 NiCrSiNCe 35 25   | EN       | European Union | Steel                         |

**For any further inquiries, please do not hesitate to contact us. You may visit our website at [AMTECH TECHNOCAST PVT. LTD.](http://AMTECH TECHNOCAST PVT. LTD.), call us at [+91 9879817994](tel:+919879817994), or email us at [manish@amtechtechnocast.com](mailto:manish@amtechtechnocast.com)**

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