

## Material - ASTM A240 UNS S43940

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 A240 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, Plate, Sheet and Strip

| Chemical Composition |      |                    | Heat Treatment                     |          |
|----------------------|------|--------------------|------------------------------------|----------|
| Carbon               | C %  | 0.030 max.         | Annealing or Hardening + Tempering |          |
| Silicon              | Si % | 1.000 max.         |                                    |          |
| Manganese            | Mn % | 1.000 max.         |                                    |          |
| Phosphorus           | P %  | 0.040 max.         |                                    |          |
| Sulphur              | S %  | 0.015 max.         |                                    |          |
| Chromium             | Cr % | 17.500 - 18.500    |                                    |          |
| Titanium             | Ti % | 0.100 - 0.600      |                                    |          |
| Niobium              | Nb % | 0.300 + (3*C) min. |                                    |          |
| Iron                 | Fe % | Balance            | Mechanical Properties              |          |
| -                    | -    | -                  | Tensile Strength in Mpa            | 430 min. |
| -                    | -    | -                  | Yield Strength in Mpa              | 250 min. |
| -                    | -    | -                  | Elongation in %                    | 18 min.  |
| -                    | -    | -                  | Reduction of Area in %             | -        |
| -                    | -    | -                  | Hardness in BHN                    | 180 max. |
| -                    | -    | -                  | Impact in Joule                    | -        |

| Cross Reference Table |          |         |                               |
|-----------------------|----------|---------|-------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry  |
| S43932                | UNS      | USA     | Steel                         |
| A959 S43932           | ASTM     | USA     | Steel                         |
| S43940                | UNS      | USA     | Steel                         |
| A240 S43940           | ASTM     | USA     | Steel, Sheet, Plate and Strip |
| A268 S43940           | ASTM     | USA     | Steel and Tube                |
| A959 S43940           | ASTM     | USA     | Steel                         |
| SA-240 S43940         | ASME     | USA     | 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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