

## Material: ASTM A 268 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 A 268 S43940 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 and Tube

| 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 max.      |                                    |          |
| Iron                 | Fe % | Balance         |                                    |          |
| -                    | -    | -               | Mechanical Properties              |          |
| -                    | -    | -               | Tensile Strength in Mpa            | 430 min. |
| -                    | -    | -               | Yield Strength in Mpa              | 205 min. |
| -                    | -    | -               | Elongation in %                    | 11 min.  |
| -                    | -    | -               | Reduction of Area in %             | -        |
| -                    | -    | -               | Hardness in HB                     | 180 max. |
| -                    | -    | -               | Impact in Joule                    | -        |

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

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