

## Material - ASTM A 959 S32520

**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 S32520 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 %  | 0.030 max.      | Solution Annealing      |  |
| Silicon              | Si % | 0.800 max.      |                         |  |
| Manganese            | Mn % | 1.500 max.      |                         |  |
| Phosphorus           | P %  | 0.035 max.      |                         |  |
| Sulphur              | S %  | 0.020 max.      |                         |  |
| Chromium             | Cr % | 24.000 - 26.000 |                         |  |
| Nickel               | Ni % | 5.500 - 8.000   |                         |  |
| Molybdenum           | Mo % | 3.000 - 5.000   | Mechanical Properties   |  |
| Nitrogen             | N %  | 0.200 - 0.350   |                         |  |
| Copper               | Cu % | 0.500 - 3.000   |                         |  |
| Iron                 | Fe % | Balance         |                         |  |
| -                    | -    | -               |                         |  |
| -                    | -    | -               |                         |  |
| -                    | -    | -               |                         |  |
| -                    | -    | -               | Tensile Strength in Mpa |  |
| -                    | -    | -               | Yield Strength in Mpa   |  |
| -                    | -    | -               | Elongation in %         |  |
| -                    | -    | -               | Reduction of Area in %  |  |
| -                    | -    | -               | Hardness in HB          |  |
| -                    | -    | -               | Impact in Joule         |  |

| Cross Reference Table |          |         |                               |
|-----------------------|----------|---------|-------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry  |
| A240 UNS S32520       | ASTM     | USA     | Steel, Plate, Sheet and Strip |
| S32520                | UNS      | USA     | Steel                         |
| A789 S32520           | ASTM     | USA     | Steel and Tube                |
| A790 S32520           | ASTM     | USA     | Steel and Pipe                |
| A928 S32520           | ASTM     | USA     | Steel and Pipe                |
| S32550                | UNS      | USA     | Steel                         |
| A240 S32550           | ASTM     | USA     | Steel, Sheet, Plate and Strip |

**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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