



**GRAVITY CAST PVT. LTD.**  
GRAVITY GROUP OF COMPANIES

## Material - ASME SA-240 UNS S31260

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 - ASME SA-240 UNS S31260 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 %  | 0.030 max.      | Solution Annealing      |          |
| Silicon              | Si % | 0.750 max.      |                         |          |
| Manganese            | Mn % | 1.000 max.      |                         |          |
| Phosphorus           | P %  | 0.030 max.      |                         |          |
| Sulphur              | S %  | 0.030 max.      |                         |          |
| Chromium             | Cr % | 24.000 - 26.000 |                         |          |
| Molybdenum           | Mo % | 2.500 - 3.500   |                         |          |
| Nickel               | Ni % | 5.500 - 7.500   | Mechanical Properties   |          |
| Nitrogen             | N %  | 0.100 - 0.300   | Tensile Strength in Mpa | 690 min. |
| Copper               | Cu % | 0.200 - 0.800   | Yield Strength in Mpa   | 485 min. |
| Tungsten             | W %  | 0.100 - 0.500   | Elongation in %         | 20 min.  |
| Iron                 | Fe % | Balance         | Reduction of Area in %  | -        |
| -                    | -    | -               | Hardness in HB          | 290 max. |
| -                    | -    | -               | Impact in Joule         | -        |

| Cross Reference Table |          |         |                               |
|-----------------------|----------|---------|-------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry  |
| A240 UNS S31260       | ASTM     | USA     | Steel, Plate, Sheet and Strip |
| S31260                | UNS      | USA     | Steel                         |
| A789 S31260           | ASTM     | USA     | Steel and Tube                |
| A790 S31260           | ASTM     | USA     | Steel and Pipe                |
| A928 S31260           | ASTM     | USA     | Steel and Pipe                |
| A959 S31260           | ASTM     | USA     | Steel                         |
| SA-789 UNS S31260     | ASME     | USA     | Steel                         |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)

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