GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASME SA-240 Type 304N

## Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate,Sheet and Srtip for Pressure Vessels and for General Applications

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASME SA-240 Type 304N Chromium and Chromium-Nickel Stainless Steel Plate,Sheet and Srtip for Pressure Vessels and for General Applications**

**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**

**Grade Belongs to the Industry - Plate, Sheet and Strip**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.080 Max. |
| Manganese | Mn % | 2.000 max. |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.030 max. |
| Silicon | Si % | 0.750 max. |
| Chromium | Cr % | 18.000 - 20.000 |
| Nickel | Ni % | 8.000 - 10.500 |
| Nitrogen | N % | 0.100 - 0.160 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 550 min. |
| Yield Strength in Mpa | 240 min. |
| Elongation in % | 30 min. |
| Reduction of Area in % | - |
| Hardness in BHN | 217 max. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| S30451 | UNS | USA | Steel |
| G 4308 SUS 304 N1 | JIS | Japan | Steel and Wire Rods |
| A 358 304N | ASTM | USA | Steel and Pipe |
| A 276 304N | ASTM | USA | Bars and Shapes |
| A 988 S30451 | ASTM | USA | Steel |
| A 943 TP304N | ASTM | USA | Steel and Pipe |
| A 376 TP304N | ASTM | USA | Steel and Pipe |

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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.