

Material: ASTM A 928 S32304

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 928 S32304 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 Pipe

| Chemical Composition | | |
|----------------------|------|-----------------|
| Carbon | C % | 0.030 max. |
| Silicon | Si % | 1.000 max. |
| Manganese | Mn % | 2.500 max. |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.030 max. |
| Chromium | Cr % | 21.500 - 24.500 |
| Nickel | Ni % | 3.000 - 5.500 |
| Molybdenum | Mo % | 0.050 - 0.600 |
| Nitrogen | N % | 0.050 - 0.200 |
| Copper | Cu % | 0.050 - 0.600 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment | |
|----------------|--------------------|
| | Solution Annealing |

| Mechanical Properties | |
|-------------------------|----------|
| Tensile Strength in Mpa | 600 min. |
| Yield Strength in Mpa | 400 min. |
| Elongation in % | 25 min. |
| 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 S32304 | ASTM | USA | Steel, Plate, Sheet and Strip |
| S32304 | UNS | USA | Steel |
| A276 S32304 | ASTM | USA | Steel, Bar and Shapes |
| A789 S32304 | ASTM | USA | Steel and Tube |
| A790 S32304 | ASTM | USA | Steel and Tube |
| S32304 | AS | Australia | Steel, Sheet, Plate and Strip |
| SA-276 S32304 | ASME | USA | Steel, Bar and Shapes |

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