

Material: ASTM A358 S32050

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 A358 S32050 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: Pipes

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon | C % | 0.030 max. | Solution Annealing | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.500 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.020 max. | | |
| Chromium | Cr % | 22.000 - 24.000 | | |
| Nickel | Ni % | 20.000 - 23.000 | | |
| Molybdenum | Mo % | 6.000 - 6.800 | Mechanical Properties | |
| Nitrogen | N % | 0.210 - 0.320 | | |
| Copper | Cu % | 0.400 max. | Tensile Strength in Mpa | 675 min. |
| Iron | Fe % | Balance | Yield Strength in Mpa | 330 min. |
| - | - | - | Elongation in % | 40 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | 256 max. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|---|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS S32050 | ASTM | USA | Steel, Plate, Sheet and Strip |
| A240 S32050 | ASTM | USA | Plate, Sheet and Strip |
| A213 S32050 | ASTM | USA | Tubes for Superheaters and Heat Exchanges |
| A 959 S32050 | ASTM | USA | Plate, Sheet and Strip |
| A249 S32050 | ASTM | USA | Tubes for Superheaters and Heat Exchanges |
| S32050 | UNS | USA | Plate, Sheet and Strip |
| - | - | - | - |

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