

Material: ASTM A 651 TP 434

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 651 TP 434 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 Tube

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|------------------------------------|------------|
| Carbon | C % | 0.120 max. | Annealing or Hardening + Tempering | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 16.000 - 18.000 | | |
| Molybdenum | Mo % | 0.750 - 1.250 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 413.7 min. |
| - | - | - | Yield Strength in Mpa | 206.8 min. |
| - | - | - | Elongation in % | - |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS S43400 | ASTM | USA | Steel, Plate, Sheet and Strip |
| S43400 | UNS | USA | Steel |
| 434 S 20 | BS | British | Steel and Wire |
| 51434 | SAE | USA | Steel |
| A959 Type 434 | ASTM | USA | Steel |
| STS 434 | KS | Korea | Steel, Wire and Rod |
| SUS 434 | JIS | Japan | Steel, Wire and Rod |

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