



Material - ASTM A240 UNS S40945

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 A240 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, Plate, Sheet and Strip

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|------------------------------------|----------|
| Carbon | C % | 0.030 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 % | 10.500 - 11.700 | | |
| Nickel | Ni % | 0.500 max. | | |
| Nitrogen | N % | 0.030 max. | | |
| Titanium | Ti % | 0.050 - 0.200 | | |
| Niobium | Nb % | 0.180 - 0.400 | | |
| Iron | Fe % | Balance | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 380 min. |
| - | - | - | Yield Strength in Mpa | 205 min. |
| - | - | - | Elongation in % | 22 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| S40910 | UNS | USA | Steel |
| S40920 | UNS | USA | Steel |
| S40930 | UNS | USA | Steel |
| S40945 | UNS | USA | Steel |
| S40975 | UNS | USA | Steel |
| S40977 | UNS | USA | Steel |
| A959 S40975 | UNS | 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

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