



Material - UNS S42035

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 - UNS 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

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|---|--|
| Carbon | C % | 0.080 max. | Annealing or Hardening + Tempering | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Phosphorus | P % | 0.045 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 13.500 - 15.500 | | |
| Nickel | Ni % | 1.000 - 2.500 | | |
| Molybdenum | Mo % | 0.200 - 1.200 | | |
| Titanium | Ti % | 0.300 - 0.500 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 550 min. Yield Strength in Mpa 380 min. Elongation in % 16 min. Reduction of Area in % - Hardness in BHN - Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
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| - | - | - | | |
| - | - | - | | |
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| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS S42035 | ASTM | USA | Steel, Plate, Sheet and Strip |
| A268 S42035 | ASTM | USA | Steel and Tube |
| A959 S42035 | ASTM | USA | Steel |
| 1.4589 | WN | Germany | Steel and Flat |
| 1.4589 | DIN | Germany | Steel and Flat |
| X5CrNiMoTi 15 2 | DIN | Germany | Steel and Flat |
| X5CrNiMoTi 15 2 | WN | Germany | Steel and Flat |

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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