



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - JIS SUS 405

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 - JIS SUS 405 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 and Sheet

| 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 % | 0.040 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 11.500 - 14.500 | | |
| Nickel | Ni % | 0.600 max. | | |
| Aluminium | Al % | 0.100 - 0.300 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 410 - 780 Yield Strength in Mpa 175 min. Elongation in % 20 min. Reduction of Area in % 60 min. Hardness in HB 183 min. Impact in Joule - | |
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| Cross Reference Table | | | |
|-----------------------|----------|-----------|-------------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| A240 UNS S40500 | ASTM | USA | Steel, Plate, Sheet and Strip |
| S40500 | UNS | USA | Steel |
| 405 | AISI | USA | Steel |
| 405 | AMS | USA | Sheet, Bar, Wire, Shape and Forging |
| 405 | AS | Australia | Steel, Sheet, Plate and Strip |
| 405 | SAE | USA | Sheet, Bar, Wire, Shape and Forging |
| STS 405 | KS | Korea | Steel and Wire |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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