



Material - ASTM A 314 XM-27

Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip

Group - Ferrous Stainless Steel Alloys

Sub Group - ASTM A 314 XM-27 Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade Belongs to the Industry - Steel, Bar, Rolling and Forging

| Chemical Composition | | | Heat Treatment | |
|----------------------|-----------|-----------------|------------------------------------|----------------|
| Carbon | C % | 0.010 max. | | |
| Silicon | Si % | 0.400 max. | | |
| Manganese | Mn % | 0.400 max. | Annealing or Hardening + Tempering | |
| Phosphorus | Р% | 0.020 max. | | ng + Tempering |
| Sulphur | S % | 0.020 max. | | |
| Chromium | Cr % | 25.000 - 27.500 | | |
| Molybdenum | Mo % | 0.750 - 1.500 | | |
| Nitrogen | N % | 0.015 max. | | |
| Cu + Ni | Cu% + Ni% | 0.500 max. | Mechanical Properties | |
| Iron | Fe % | Balance | Tensile Strength in Mpa | 415 min. |
| - | - | - | Yield Strength in Mpa | 240 min. |
| - | - | - | Elongation in % | 20 min. |
| - | - | - | Reduction of Area in % | 45 min. |
| - | - | - | Hardn <mark>ess in HB</mark> | 190 max. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | | |
|-----------------------|----------|--------------------------------------|-------------------------------|--|
| Material | Standard | Country Grade Belong to the Industry | | |
| A240 UNS S44627 | ASTM | USA | Steel, Plate, Sheet and Strip | |
| S44627 | UNS | USA | Steel | |
| XM-27 | SAE | USA | Steel | |
| STS XM-27 | KS | Korea | Steel, Sheet, Plate and Strip | |
| SUS SM-27 | JIS | Japan | Steel and Bar | |
| A276 XM-27 | ASTM | USA | Steel, Bar and Shapes | |
| A182 F XM-27Cb | ASTM | USA | Steel, Pipe and Forging | |

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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