GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - SAE J405 Type XM-29

## Standard Specification for Chemical Compositions of SAE Wrought Stainless Steels

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - SAE J405 Type XM-29 Chemical Compositions of SAE Wrought Stainless Steels**

**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**

**Grade Belongs to the Industry - Steel**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.080 max. |
| Manganese | Mn % | 11.500 - 14.500 |
| Phosphorus | P % | 0.060 max. |
| Sulphur | S % | 0.030 max. |
| Silicon | Si % | 0.750 max. |
| Chromium | Cr % | 17.000 - 19.000 |
| Nickel | Ni % | 2.250 - 3.750 |
| Nitrogen | N % | 0.200 - 0.400 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Solution Annealing |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 690 min. |
| Yield Strength in Mpa | 415 min. |
| Elongation in % | 40 min. |
| Reduction of Area in % | - |
| Hardness in BHN | 241 max. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| S24000 | UNS | USA | Steel |
| SA-479 Type XM-29 | ASME | USA | Steel, Bar and Shapes |
| SA-813 TPXM-29 | ASME | USA | Steel and Pipe |
| SA-276 XM-29 | ASME | USA | Steel, Bar and Shapes |
| SA-249 Grade TP XM-29 | ASME | USA | Steel and Tubing |
| A 240 Type XM-29 | ASTM | USA | Plate, Sheet and Strip |
| A 249 TPXM-29 | ASTM | USA | Steel and Tubing |

**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.