GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASME SA-479 Type XM-29

## Standard Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASME SA-479 Type XM-29 Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels**

**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**
**Grade Belongs to the Industry - Bars and Shapes**

| 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 % | 1.000 max. |
| Chromium | Cr % | 17.000 - 19.000 |
| Nickel | Ni % | 2.300 - 3.700 |
| Nitrogen | N % | 0.200 - 0.400 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 690 min. |
| Yield Strength in Mpa | 380 min. |
| Elongation in % | 30 min. |
| Reduction of Area in % | 50 min. |
| Hardness in BHN | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| S24000 | UNS | USA | Steel and Pipe |
| J 405 XM-29 | SAE | USA | Steel |
| A 580 Type XM-29 | ASTM | USA | Steel and Wire |
| A 358 XM-29 | ASTM | USA | Steel and Pipe |
| A 959 Type XM-29 | ASTM | USA | Steel |
| A 269 TPXM-29 | ASTM | USA | Steel and Tubing |
| A 314 XM-29 | ASTM | USA | Bars 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**

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.