GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASTM A479 Type 444

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

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASTM A479 Type 444 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 % | 0.025 max. |
| Manganese | Mn % | 1.000 max. |
| Phosphorus | P % | 0.040 max. |
| Sulphur | S % | 0.030 max. |
| Silicon | Si % | 1.000 max. |
| Chromium | Cr % | 17.500 - 19.500 |
| Nickel | Ni % | 1.000 max. |
| Nitrogen | N % | 0.350 max. |
| Molybdenum | Mo % | 1.750 - 2.500 |
| Ti + Nb | Ti % + Nb % | 0.208 - 0.800 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

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

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | - |
| Yield Strength in Mpa | - |
| Elongation in % | - |
| Reduction of Area in % | - |
| Hardness in HB | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| J 405 444 | SAE | USA | Steel |
| SA-276 S44400 | ASME | USA | Bars and Shapes |
| A 268 18Cr-2Mo | ASTM | USA | Steel and Tubing |
| A 276 S44400 | ASTM | USA | Bars and Shapes |
| A 240 UNS S44400 | ASTM | USA | Plate, Sheet and Strip |
| A 580 S44400 | ASTM | USA | Steel and Wire |
| A 176 S44400 | ASTM | USA | Plate, Sheet and Strip |

**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.