GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASTM A479 Type 348

## 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 348 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 % | 2.000 max. |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.030 max. |
| Silicon | Si % | 1.000 max. |
| Chromium | Cr % | 17.000 - 19.000 |
| Nickel | Ni % | 9.000 - 12.000 |
| Nb + Ta | Nb% + Ta% | 0.010 - 1.100 |
| Tantalum | Ta % | 0.100 max. |
| Cobalt | Co % | 0.200 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Annealing or Strain-Hardening |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 515 min. |
| Yield Strength in Mpa | 205 min. |
| Elongation in % | 30 min. |
| Reduction of Area in % | 40 min. |
| Hardness in HB | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| S34800 | UNS | USA | Steel and Pipe |
| J 405 30348 | SAE | USA | Steel |
| A 959 Type 348 | ASTM | USA | Steel |
| A 473 348 | ASTM | USA | Steel and Forging |
| A 358 348 | ASTM | USA | Steel and Pipe |
| A 276 348 | ASTM | USA | Steel, Bars and Shapes |
| A 409 TP348 | ASTM | USA | Steel and Pipe |

**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.