GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASTM A473 Type 309

## Standard Specification for Stainless Steel Forgings

**Group - Ferrous Stainless Steel Alloys**

**Sub Group - ASTM A473 Type 309 Stainless Steel Forgings**

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

**Grade Belongs to the Industry - Forging**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.200 max. |
| Manganese | Mn % | 2.000 max. |
| Phosphorus | P % | 0.045 max. |
| Sulphur | S % | 0.030 max. |
| Silicon | Si % | 1.000 max. |
| Chromium | Cr % | 22.000 - 24.000 |
| Nickel | Ni % | 12.000 - 15.000 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Solution Annealing |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 515 min. |
| Yield Strength in Mpa | 205 min. |
| Elongation in % | 40 min. |
| Reduction of Area in % | 50 min. |
| Hardness in HRC | - |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| S30900 | UNS | USA | Steel |
| 10028-7 1.4950 | EN | European Union | Steel |
| J 405 30309 | SAE | USA | Steel |
| A 167 Type 309 | ASTM | USA | Plate, Sheet and Strip |
| A 182 F 309H | ASTM | USA | Steel and pipe |
| A 249 TP309 | ASTM | USA | Steel and Tubing |
| SA-276 309 | ASME | USA | Bars and Shapes |

**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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