GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASME SA-372 Grade C

## Standard Specification for Carbon and Alloy Steel Forgings for Thin-Walled Pressure Vessels

**Group - Ferrous Mild Steel Alloys**
**Sub Group - ASME SA-372 Grade C Carbon and Alloy Steel Forgings for Thin-Walled Pressure Vessels**
**Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries**
**Grade Belongs to the Industry - Forgings**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.480 max. |
| Manganese | Mn % | 1.650 max. |
| Phosphorus | P % | 0.015 max. |
| Sulphur | S % | 0.010 max. |
| Silicon | Si % | 0.150 - 0.350 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| Normalising or Normalising & Tempering or Quenching & Tempering |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 620 - 795 |
| Yield Strength in Mpa | 380 min. |
| Elongation in % | 15 min. |
| Reduction of Area in % | - |
| Hardness in BHN | 187 min. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| H10380 | UNS | USA | Steel |
| J 1268 1038 H | SAE | USA | Steel |
| 1038 H | AISI | USA | Steel |
| A 29 4140 | ASTM | USA | Steel and Bars |
| A 519 4027 | ASTM | USA | Steel and Tubing |
| A 752 Grade 4027 | ASTM | USA | Steel and Wire Rods |
| A 304 1038 H | ASTM | USA | Steel |

**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.