GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - ASTM A372 Grade E Class 70

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

**Group - Ferrous Mild Steel Alloys**
**Sub Group - ASTM A372 Grade E Class 70 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 - Forging**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.250 - 0.350 |
| Manganese | Mn % | 0.400 - 0.900 |
| Phosphorus | P % | 0.025 max. |
| Sulphur | S % | 0.025 max. |
| Silicon | Si % | 0.150 - 0.350 |
| Chromium | Cr % | 0.800 - 1.150 |
| Molybdenum | Mo % | 0.150 - 0.250 |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Normalizing or Normalizing & Tempering or Quenching & Tempering |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 825 - 1000 |
| Yield Strength in Mpa | 485 min. |
| Elongation in % | 18 min. |
| Reduction of Area in % | - |
| Hardness in HB | 248 min. |
| Impact in Joule | - |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| G41300 | UNS | USA | Steel |
| K13047 | UNS | USA | Steel |
| SAE J 404 4130 | AISI | USA | Steel |
| A 505 4130 | ASTM | USA | Sheet and Strip |
| A 513 4130 | ASTM | USA | Tubing |
| A 752 Grade 4130 | ASTM | USA | Steel and Wire Rods |
| SA-372 Grade E Class 70 | ASME | USA | 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.