GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - IS 734 22588

## Standard Specification for Wrought Aluminium and Aluminium Alloy Forging Stock and Forgings

**Group - Non-Ferrous Aluminium Alloy**
**Sub Group - IS 734 22588 Wrought Aluminium and Aluminium Alloy Forging Stock and Forgings**
**Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries**
**Grade Belongs to the Industry - Forging**

| Chemical Composition | | |
|---|---|---|
| Copper | Cu % | 1.800 - 2.700 |
| Magnesium | Mg % | 1.200 - 1.600 |
| Silicon | Si % | 1.300 max. |
| Iron | Fe % | 0.600 - 1.200 |
| Manganese | Mn % | 0.200 max. |
| Zinc | Zn % | 0.200 max. |
| Titanium | Ti % | 0.300 max. |
| Nickel | Ni % | 0.600 - 1.400 |
| Aluminium | Al % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 375 min. |
| Proof Stress in Mpa | 265 min. |
| Elongation in % | - |
| Reduction of Area in % | - |
| Hardness in HB | - |
| Impact in Joule | - |

| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| IS 7670 Grade 1 | IS | India | Forging |
| 573-3 AW-2031 | EN | European Union | Forging, Wire, Bars, Sheet, Strip and Plate |
| 573-3 AW-Al Cu2.5NiMg | EN | European Union | Forging, Wire, Bars, Sheet, Strip and Plate |
| 573-3 AW-Al Cu2Mg1.5Ni | EN | European Union | Forging, Wire, Bars, Sheet, Strip and Plate |
| 573-3 AW-2618A | EN | European Union | Forging, Wire, Bars, Sheet, Strip and Plate |
| - | - | - | - |
| - | - | - | - |

**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.