



## Material - UNI EN 1706 AC-47100

### Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - UNI EN 1706 Aluminium and Aluminium Alloys - Casting

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

Grade Belongs to the Industry - Casting

| Chemical Composition |      |                 | Heat Treatment          |          |
|----------------------|------|-----------------|-------------------------|----------|
| Copper               | Cu % | 0.700 -1.200    | As-Cast                 |          |
| Iron                 | Fe % | 1.300 max.      |                         |          |
| Magnesium            | Mg % | 0.350 max.      |                         |          |
| Manganese            | Mn % | 0.550 max.      |                         |          |
| Nickel               | Ni % | 0.300 max.      |                         |          |
| Silicon              | Si % | 10.500 - 13.500 |                         |          |
| Lead                 | Pb % | 0.200 max.      |                         |          |
| Tin                  | Sn % | 0.100 max.      |                         |          |
| Titanium             | Ti % | 0.200 max.      |                         |          |
| Zinc                 | Zn % | 0.550 max.      |                         |          |
| Chromium             | Cr % | 0.100 max.      | Mechanical Properties   |          |
| Other                | Ot%  | 0.250 max.      | Tensile Strength in Mpa | 240 min. |
| Aluminium            | Al % | Balance         | Yield Strength in Mpa   | 140 min. |
| -                    | -    | -               | Elongation in %         | 1 min.   |
| -                    | -    | -               | Reduction of Area in %  | -        |
|                      |      |                 | Hardness in HB          | 70 min.  |
|                      |      |                 | Impact in Joule         | -        |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| EN AC-47100           | DIN      | Germany       | Casting                      |
| EN AC-47100           | BS       | British       | Casting                      |
| EN AC-47100           | ASME     | USA           | Casting                      |
| Al Si12Cu1(Fe)        | ISO      | International | Casting                      |
| EN AC-47100           | AFNOR NF | France        | Casting                      |
| EN AC-47100           | UNE      | Spain         | Casting                      |
| EN AC-47100           | SFS      | Finland       | Casting                      |

**Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email [marketing@gravitycastindia.com](mailto:marketing@gravitycastindia.com)**

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