



Material - BS EN 1706 AC-46100

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - BS 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 % | 2.000 -4.000 | As-Cast | |
| Iron | Fe % | 1.300 max. | | |
| Magnesium | Mg % | 0.050 -0.550 | | |
| Manganese | Mn % | 0.550 max. | | |
| Nickel | Ni % | 0.550 max. | | |
| Silicon | Si % | 8.000 - 11.000 | | |
| Lead | Pb % | 0.290 max. | | |
| Tin | Sn % | 0.150 max. | | |
| Titanium | Ti % | 0.250 max. | | |
| Zinc | Zn % | 3.00 max. | | |
| Chromium | Cr % | 0.150 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 | 80 min. |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| EN AC-46100 | DIN | Germany | Casting |
| Al Si11Cu2(Fe) | ISO | International | Casting |
| EN AC-46100 | ASME | USA | Casting |
| EN AC-46100 | UNI | Italy | Casting |
| EN AC-46100 | AFNOR NF | France | Casting |
| EN AC-46100 | UNE | Spain | Casting |
| EN AC-46100 | 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

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