



Material - SFS EN 1706 AC-46200

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - SFS 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 - 3.500 | As-Cast | |
| Iron | Fe % | 0.800 max. | | |
| Magnesium | Mg % | 0.050 - 0.550 | | |
| Manganese | Mn % | 0.150 - 0.650 | | |
| Nickel | Ni % | 0.350 max. | | |
| Silicon | Si % | 7.500 - 9.500 | | |
| Lead | Pb % | 0.250 max. | | |
| Tin | Sn % | 0.150 max. | | |
| Titanium | Ti % | 0.250 max. | | |
| Zinc | Zn % | 1.200 max. | | |
| Other | Ot% | 0.250 max. | Mechanical Properties | |
| Aluminium | Al % | Balance | Tensile Strength in Mpa | 150 - 370 |
| - | - | - | Yield Strength in Mpa | 90 - 310 |
| - | - | - | Elongation in % | 1 - 2 |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HB | 60 - 120 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| EN AC-46200 | DIN | Germany | Casting |
| EN AC-46200 | BS | British | Casting |
| EN AC-46200 | ASME | USA | Casting |
| EN AC-46200 | UNI | Italy | Casting |
| EN AC-46200 | UNE | Spain | Casting |
| Al Si8Cu3 | ISO | International | Casting |
| EN AC-46200 | AFNOR NF | France | 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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