



Material - DIN EN 1706 AC-45200

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - DIN 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 % | 2.500 - 4.000 | As-Cast | |
| Iron | Fe % | 0.800 max. | | |
| Magnesium | Mg % | 0.400 max. | | |
| Manganese | Mn % | 0.200 - 0.550 | | |
| Nickel | Ni % | 0.030 max. | | |
| Silicon | Si % | 4.500 - 6.000 | | |
| Lead | Pb % | 0.200 max. | | |
| Tin | Sn % | 0.010 max. | | |
| Titanium | Ti % | 0.200 max. | | |
| Zinc | Zn % | 0.550 max. | | |
| Other | Ot% | 0.250 max. | Mechanical Properties | |
| Aluminium | Al % | Balance | Tensile Strength in Mpa | 140 - 280 |
| - | - | - | Yield Strength in Mpa | 70 - 230 |
| - | - | - | Elongation in % | 1 |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in HB | 60 - 90 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| Al Si5Cu3Mn | ISO | International | Casting |
| EN AC-45200 | BS | British | Casting |
| EN AC-45200 | UNI | Italy | Casting |
| EN AC-45200 | UNE | Spain | Casting |
| EN AC-45200 | SFS | Finland | Casting |
| EN AC-45200 | BDS | Bulgaria | Casting |
| EN AC-45200 | CSN | Czech Republic | 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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