



## Material - UNE EN 1706 AC- 51200

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

Group - Non-Ferrous Aluminium Alloy

Sub Group - UNE 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 % | 0.100 max.     | As-Cast   |  |
| Iron                 | Fe % | 1.000 max.     |   |  |
| Magnesium            | Mg % | 8.000 - 10.500 |   |  |
| Manganese            | Mn % | 0.550 max.     |   |  |
| Nickel               | Ni % | 0.100 max.     |   |  |
| Silicon              | Si % | 2.500 max.     |   |  |
| Titanium             | Ti % | 0.200 max.     |   |  |
| Lead                 | Pb % | 0.100 max.     |   |  |
| Tin                  | Sn % | 0.100 max.     |   |  |
| Beryllium            | Be % | 0.005 max.     |   |  |
| Zinc                 | Zn % | 1.500 max.     | <b>Mechanical Properties</b><br>Tensile Strength in Mpa      160 - 180<br>Yield Strength in Mpa      100 - 110<br>Elongation in %      3 min.<br>Reduction of Area in %      -<br>Hardness in HB      60 - 65<br>Impact in Joule      - |  |
| Other                | Ot%  | 0.250 max.     |   |  |
| Aluminium            | Al % | Balance        |   |  |
| -                    | -    | -              |   |  |
| -                    | -    | -              |   |  |

| Cross Reference Table |          |               |                              |
|-----------------------|----------|---------------|------------------------------|
| Material              | Standard | Country       | Grade Belong to the Industry |
| EN AC-51200           | DIN      | Germany       | Casting                      |
| EN AC-51200           | BS       | British       | Casting                      |
| EN AC-51200           | ASME     | USA           | Casting                      |
| EN AC-51200           | AFNOR NF | France        | Casting                      |
| Al Mg9                | ISO      | International | Casting                      |
| EN AC-51200           | UNI      | Italy         | Casting                      |
| EN AC-51200           | 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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