



## Material - ISO 3522 Al Cu5MgAg

### Standard Specification for Aluminium and Aluminium Alloys

Group - Non-Ferrous Aluminium Alloy

Sub Group - ISO 3522 for Aluminium and Aluminium Alloys

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

Grade Belongs to the Industry - Casting

| Chemical Composition |      |               | Heat Treatment                         |          |
|----------------------|------|---------------|--|----------|
| Silicon              | Si % | 0.050 max.    | As-Cast or Solution Anneling and Aging |          |
| Iron                 | Fe % | 0.100 max.    |  |          |
| Copper               | Cu % | 4.000 - 5.000 |  |          |
| Manganese            | Mn % | 0.200 - 0.400 |  |          |
| Magnesium            | Mg % | 0.150 - 0.350 |  |          |
| Zinc                 | Zn % | 0.050 max.    |  |          |
| Titanium             | Ti % | 0.150 - 0.350 |  |          |
| Other                | Ot%  | 0.100 max.    |  |          |
| Aluminium            | Al % | Balance       |  |          |
| -                    | -    | -             | Mechanical Properties                  |          |
| -                    | -    | -             | Tensile Strength in Mpa                | 480 min. |
| -                    | -    | -             | Yield Strength in Mpa                  | 430 min. |
| -                    | -    | -             | Elongation in %                        | 3 min.   |
| -                    | -    | -             | Reduction of Area in %                 | -        |
| -                    | -    | -             | Hardness in HBW                        | 115 min. |
| -                    | -    | -             | Impact in Joule                        | -        |

| Cross Reference Table |          |         |                              |
|-----------------------|----------|---------|------------------------------|
| Material              | Standard | Country | Grade Belong to the Industry |
| -                     | 0        | -       | 0                            |
| 0                     | 0        | -       | 0                            |
| 0                     | 0        | -       | 0                            |
| 0                     | 0        | -       | 0                            |
| 0                     | 0        | -       | 0                            |
| 0                     | 0        | -       | 0                            |
| 0                     | 0        | -       | 0                            |

**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)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.