

## Material: DIN EN 1753 EN-MB21230

### Standard Specification for Magnesium Alloy Ingots and Castings

**Group:** Non-Ferrous Magnesium Alloy

**Sub Group:** DIN EN 1753 Magnesium Alloy Ingots and Castings

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Ingot and Casting

| Chemical Composition |      |               | Heat Treatment                                                                                                                                                                                          |  |
|----------------------|------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Aluminium            | Al % | 5.600 - 6.400 | As-Cast                                                                                                                                                                                                 |  |
| Copper               | Cu % | 0.008 max.    |                                                                                                                                                                                                         |  |
| Iron                 | Fe % | 0.004 max.    |                                                                                                                                                                                                         |  |
| Manganese            | Mn % | 0.230 max.    |                                                                                                                                                                                                         |  |
| Nickel               | Ni % | 0.001 max.    |                                                                                                                                                                                                         |  |
| Other                | Ot%  | 0.010 max.    |                                                                                                                                                                                                         |  |
| Silicon              | Si % | 0.050 max.    |                                                                                                                                                                                                         |  |
| Zinc                 | Zn % | 0.200 max.    |                                                                                                                                                                                                         |  |
| Magnesium            | Mg % | Balance       | <b>Mechanical Properties</b><br>Tensile Strength in Mpa 220 min.<br>Yield Strength in Mpa 130 min.<br>Elongation in % 8 min.<br>Reduction of Area in % -<br>Hardness in HB 62 min.<br>Impact in Joule - |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |
| -                    | -    | -             |                                                                                                                                                                                                         |  |

| Cross Reference Table |          |          |                              |
|-----------------------|----------|----------|------------------------------|
| Material              | Standard | Country  | Grade Belong to the Industry |
| AM60B                 | ANSI/AA  | USA      | Casting                      |
| B94 AM60B             | ASTM     | USA      | Casting                      |
| B951 AM60B            | ASTM     | USA      | Casting                      |
| B951 M10602           | ASTM     | USA      | Casting                      |
| B275 AM60B            | ASTM     | USA      | Casting                      |
| EN-MB21230            | BDS      | Bulgaria | Ingot and Casting            |
| EN-MBMgAl6Mn          | AFNOR NF | France   | Ingot and Casting            |

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