



Material - DIN EN-1753 MC21121

Standard Specification for Magnesium and Magnesium Alloys - Ingots and Castings

Group - Non-Ferrous Magnesium Alloy

Sub Group - DIN EN-1753 Magnesium and Magnesium Alloys - 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 % | 8.000 - 10.000 | As-Cast or Solution Treated or Fully Treated | |
| Copper | Cu % | 0.200 max. | | |
| Iron | Fe % | 0.030 max. | | |
| Nickel | Ni % | 0.010 max. | | |
| Other | Ot% | 0.050 max. | | |
| Silicon | Si % | 0.300 max. | | |
| Zinc | Zn % | 0.300 - 1.000 | | |
| Magnesium | Mg % | Balance | | |
| - | - | - | Mechanical Properties | |
| - | - | - | Tensile Strength in Mpa | 140 - 235 |
| - | - | - | Yield Strength in Mpa | 75 - 110 |
| - | - | - | Elongation in % | 1 - 6 |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| Mg-Al9Zn | ISO | International | Bar and Wire |
| MgAl9Zn Class3 | JIS | Japan | Casting |
| EN-MC21121 | ONORM | Australia | Ingot and Casting |
| EN-MC21121 | UNI | Italy | Ingot and Casting |
| EN-MC21121 | CSN | Czech Republic | Ingot and Casting |
| EN-MC21121 | MSZ | Hungary | Ingot and Casting |
| EN-MC21121 | PN | Poland | Ingot and 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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