



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - CSN EN-1753 MC21121

**Standard Specification for Magnesium and Magnesium Alloys - Ingots and Castings**

**Group - Non-Ferrous Magnesium Alloy**

**Sub Group - CSN 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	DIN	Germany	Ingot and Casting
EN-MC21121	UNI	Italy	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](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.

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