

# Material: PN EN-1753 MC21121

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

**Group:** Non-Ferrous Magnesium Alloy

**Sub Group:** PN 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		
Aluminium	Al %	8.000 - 10.000
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Treated or Fully Treated

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	CSN	Czech Republic	Ingot and Casting
EN-MC21121	MSZ	Hungary	Ingot and Casting

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