



Material - ISO 121 Mg-Al9Zn

Standard Specification for Magnesium-Aluminium-Zinc Alloy Casting

Group - Non-Ferrous Magnesium-Aluminium-Zinc Alloy

Sub Group - ISO 121 Magnesium-Aluminium-Zinc Alloy Casting

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

Grade Belongs to the Industry - Bar and Wire

Chemical Composition			Heat Treatment	
Zinc	Zn %	0.200 - 1.000	As-Cast or Solution Treated or Fully Treated	
Manganese	Mn %	0.150 - 0.600		
Silicon	Si %	0.300 max.		
Iron	Fe %	0.050 max.		
Copper	Cu %	0.200 max.		
Nickel	Ni %	0.010 max.		
Aluminium	Al %	8.300 - 10.300		
Magnesium	Mg %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	140 min.
-	-	-	Yield Strength in Mpa	75 min.
-	-	-	Elongation in %	1 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
MgAl9Zn Class 3	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
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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