

Material: JIS H 5203 MgAl9Zn ISO Class3

Standard Specification for Magnesium Alloy Castings

Group: Non-Ferrous Magnesium Alloy

Sub Group: JIS H 5203 Magnesium Alloy Castings

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

Belongs to the Industry: Casting

Chemical Composition		
Aluminium	Al %	8.300 - 10.300
Copper	Cu %	0.200 max.
Iron	Fe %	0.050 max.
Manganese	Mn %	0.150 - 0.600
Nickel	Ni %	0.010 max.
Silicon	Si %	0.300 max.
Zinc	Zn %	0.200 - 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
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

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