

Material: JIS H 5203 MC3

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			Heat Treatment	
Aluminium	Al %	8.000 - 10.000	As-Cast or Solution Treated or Fully Treated	
Copper	Cu %	0.200 max.		
Iron	Fe %	0.050 max.		
Manganese	Mn %	0.100 - 0.500		
Nickel	Ni %	0.010 max.		
Other	Ot%	0.300 max.		
Silicon	Si %	0.300 max.		
Zinc	Zn %	1.500 - 2.500		
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-Al9Zn2	ISO	International	Bar and Wire
B80 AZ92A	ASTM	USA	Casting
B93 AZ92A	ASTM	USA	Casting
B199 AZ92A	ASTM	USA	Casting
B275 AZ92A	ASTM	USA	Casting
B403 AZ92A	ASTM	USA	Casting
B951 AZ92A	ASTM	USA	Casting

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