



Material - JIS H 4204 MS-AZ80

Standard Specification for Magnesium Alloy Extruded Shapes

Group - Non-Ferrous Magnesium Alloy
Sub Group - JIS H 4204 Magnesium Alloy Extruded Shapes

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

Grade Belongs to the Industry - Shape

Chemical Composition			Heat Treatment	
Aluminium	Al %	7.800 - 9.200		
Copper	Cu %	0.050 max.		
Iron	Fe %	0.005 max.		
Manganese	Mn %	0.120 - 0.400	As-Cast or Solution Treated or Fully Treated	
Nickel	Ni %	0.005 max.		
Other	Ot%	0.300 max.		
Silicon	Si %	0.100 max.		
Zinc	Zn %	0.200 - 0.800		_
Magnesium	Mg %	Balance	Mechanical Properties	
-	-		Tensile Strength in Mpa	290 - 330
-	-	-	Yield Strength in Mpa	185 - 230
-	-	-	Elongation in %	2 - 10
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
Mg-Al8Zn	ISO	International	Bar and Wire	
MBD-AZ80	JIS	Japan	Bar and Wire	
MWD-AZ80	JIS	Japan	Bar and Wire	
B107 AZ80A	ASTM	USA	Bar, Rod, Tube and Wire	
B951 AZ80A	ASTM	USA	Bar and Wire	
MB3	KS	Korea	Bar	
MgAl8Zn	DIN	Germany	Bar and Wire	

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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