Material: DIN 1729-1 MgAl8Zn

Standard Specification for Wrought Magnesium Alloys

Group: *Non-Ferrous Magnesium Alloy*
Sub Group: *DIN 1729-1 Wrought Magnesium Alloys*
Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade*
Belongs to the Industry: *Bar and Wire*

Chemical Composition		
Aluminium	Al %	7.800 - 9.200
Copper	Cu %	0.050 max.
Iron	Fe %	0.005 max.
Manganese	Mn %	0.120 - 0.300
Other	Ot%	0.300 max.
Silicon	Si %	0.100 max.
Zinc	Zn %	0.200 - 0.800
Magnesium	Mg %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Treated or Fully Treated

Mechanical Properties	
Tensile Strength in Mpa	270 - 310
Yield Strength in Mpa	195 - 215
Elongation in %	6 - 10
Reduction of Area in %	-
Hardness in HB	60 - 65
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
MS-AZ80	JIS	Japan	Shape
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

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