

# Material: BS 2970 MAG 7

## Standard Specification for Magnesium and Magnesium Alloy Ingots and Castings

**Group:** Non-Ferrous Magnesium Alloy

**Sub Group:** BS 2970 Magnesium and Magnesium Alloy Ingots and Castings

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

**Belongs to the Industry:** Ingot and Casting

Chemical Composition		
Aluminium	Al %	7.500 - 9.000
Copper	Cu %	0.350 max.
Iron	Fe %	0.050 max.
Manganese	Mn %	0.150 - 0.800
Nickel	Ni %	0.020 max.
Silicon	Si %	0.400 max.
Zinc	Zn %	0.300 - 1.500
Magnesium	Mg %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Treated

Mechanical Properties	
Tensile Strength in Mpa	125 - 215
Yield Strength in Mpa	80 - 110
Elongation in %	2 - 5
Reduction of Area in %	-
Hardness in HB	50 - 80
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
MgAl8Zn1	ISO	International	Bar and Wire
MgAl8Zn1 Class 2A	JIS	Japan	Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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