



Material - UNI EN 1706 G-AS12MG

Standard Specification for Primary Aluminium-Silicon-Magnesium Alloy for Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - UNI EN 1706 Primary Aluminium-Silicon-Magnesium Alloy for Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	0.100 max.	As-Cast or Annealing or Quenching	
Magnesium	Mg %	0.270 - 0.400		
Silicon	Si %	11.500 - 13.000		
Iron	Fe %	0.800 max.		
Manganese	Mn %	0.350 - 0.650		
Nickel	Ni %	0.100 max.		
Zinc	Zn %	0.100 max.		
Titanium	Ti %	0.100 max.		
Other	Ot%	0.300 max.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 215.7 - 313.8 Yield Strength in Mpa 177 - 275 Elongation in % 1 - 4 Reduction of Area in % - Hardness in HB 80 - 110 Impact in Joule -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LM9	BS	British	Ingot and Casting
4635	IS	India	Ingot and Casting
G AlSi12MnMg	UNI	Italy	Ingot and Casting
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-	-	-	-
-	-	-	-
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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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