



Material - IS 617 4635

Standard Specification for Aluminium and Aluminium Alloys Ingot and Casting for General Engineering Purposes

Group - Non-Ferrous Aluminium Alloy

Sub Group - IS 617 Aluminium and Aluminium Alloys Ingot and Casting for General Engineering Purposes

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

Grade Belongs to the Industry - Ingot and Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	0.100 max.	As-Cast	
Magnesium	Mg %	0.200 - 0.600		
Silicon	Si %	10.000 - 13.000		
Iron	Fe %	0.600 max.		
Manganese	Mn %	0.300 - 0.700		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	0.100 max.		
Nickel	Ni %	0.100 max.		
Lead	Pb %	0.100 max.		
Tin	Sn %	0.200 max.		
Titanium	Ti %	0.200 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	170 - 295
-	-	-	Yield Strength in Mpa	200 - 245
-	-	-	Elongation in %	1.5 - 3
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LM9	BS	British	Ingot and Casting
G AlSi12MnMg	UNI	Italy	Ingot and Casting
G-AS12MG	UNI	Italy	Ingot and Casting
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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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