



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - IS 617 4223

Standard Specification for Aluminium and Aluminium Alloy Ingots and Castings for General Engineering Purposes

Group - Non-Ferrous Aluminium Alloy

Sub Group - IS 617 Aluminium and Aluminium Alloy Ingots and Castings 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 %	2.000 - 4.000	As-Cast or Solution Annealing	
Iron	Fe %	0.800 max.		
Magnesium	Mg %	0.150 max.		
Manganese	Mn %	0.200 .600		
Nickel	Ni %	0.300 max.		
Silicon	Si %	4.000 - 6.000		
Lead	Pb %	0.100 max.		
Tin	Sn %	0.100 max.		
Zinc	Zn %	0.500 max.		
Aluminium	Al %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	140 - 280
-	-	-	Yield Strength in Mpa	85 - 90
-	-	-	Elongation in %	2 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
LM22	BS	British	Ingot and Casting
Al Si5Cu3	ISO	International	Casting
EN AC-45400	DIN	Germany	Casting
EN AC-Al Si5Cu3	CSN	International	Casting
EN AC-45400	SFS	Finland	Casting
EN AC-45400	ONORM	Australia	Casting
EN AC-45400	MSZ	Hungary	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

ONE STOP SOLUTION FOR METAL PARTS