



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - UNE EN 1706 AC- 51000

### Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - UNE EN 1706 Aluminium and Aluminium Alloys - 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	
Iron	Fe %	0.550 max.		
Magnesium	Mg %	2.500 - 3.500		
Manganese	Mn %	0.450 max.		
Silicon	Si %	0.550 max.		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	0.100 max.		
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	140 - 150
			Yield Strength in Mpa	70 min.
			Elongation in %	3 - 5
			Reduction of Area in %	-
			Hardness in HB	50 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-51000	DIN	Germany	Casting
EN AC-51000	BS	British	Casting
EN AC-51000	UNI	Italy	Casting
EN AC-51000	AFNOR NF	France	Casting
Al Mg3	ISO	International	Casting
EN AC-51000	SFS	Finland	Casting
EN AC-51000	BDS	Bulgaria	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](mailto: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**