



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

## Material - BDS EN 1706 AC- 71000

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

**Group - Non-Ferrous Aluminium Alloy**

**Sub Group - BDS 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 %	0.150 - 0.350	As-Cast or Aging	
Iron	Fe %	0.800 max.		
Magnesium	Mg %	0.400 - 0.700		
Manganese	Mn %	0.400 max.		
Nickel	Ni %	0.050 max.		
Silicon	Si %	0.300 max.		
Titanium	Ti %	0.100 - 0.250		
Lead	Pb %	0.050 max.		
Tin	Sn %	0.050 max.		
Chromium	Cr %	0.150 - 0.600		
Zinc	Zn %	4.500 - 6.000	<b>Mechanical Properties</b> Tensile Strength in Mpa      190 - 210 Yield Strength in Mpa      120 - 130 Elongation in %      4 min. Reduction of Area in %      - Hardness in HB      60 - 62 Impact in Joule      -	
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-71000	DIN	Germany	Casting
EN AC-71000	BS	British	Casting
EN AC-71000	UNI	Italy	Casting
EN AC-71000	AFNOR NF	France	Casting
EN AC-71000	UNE	Spain	Casting
EN AC-71000	SFS	Finland	Casting
Al Zn5Mg	ISO	International	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**