



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

## Material - SFS EN 1706 AC-21000

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

**Group - Non-Ferrous Aluminium Alloy**

**Sub Group - SFS EN 1706 Aluminium and Aluminium Alloys - Castings**

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

**Grade Belongs to the Industry - Casting**

Chemical Composition			Heat Treatment	
Copper	Cu %	4.200 - 5.000	As-Cast, or Solution Annealing and Aging	
Iron	Fe %	0.350 max.		
Magnesium	Mg %	0.150 - 0.350		
Manganese	Mn %	0.100 max.		
Nickel	Ni %	0.050 max.		
Silicon	Si %	0.200 max.		
Lead	Pb %	0.050 max.		
Tin	Sn %	0.050 max.		
Titanium	Ti %	0.150 - 0.300		
Zinc	Zn %	0.100 max.		
Other	Ot%	0.100 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	300 - 420
-	-	-	Yield Strength in Mpa	200 - 350
-	-	-	Elongation in %	3 - 18
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	90 - 120
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-21000	ASME	USA	Casting
EN AC-21000	DIN	Germany	Casting
EN AC-21000	UNE	Spain	Casting
Al Cu4MgTi	ISO	International	Casting
EN AC-21000	MSZ	Hungary	Casting
EN AC-21000	AFNOR NF	France	Casting
EN AC-21000	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**