



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

## Material - AFNOR NF EN 1706 AC-Al Cu4MgTi

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

Group - Non-Ferrous Aluminium Alloy

Sub Group - AFNOR NF 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 %	4.200 - 5.000	As-Cast or Solution Anneling 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.	<b>Mechanical Properties</b> 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      -	
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-Al Cu4MgTi	ASME	USA	Casting
EN AC-Al Cu4MgTi	DIN	Germany	Casting
EN AC-Al Cu4MgTi	UNE	Spain	Casting
EN AC-Al Cu4MgTi	SFS	Finland	Casting
EN AC-Al Cu4MgTi	MSZ	Hungary	Casting
Al Cu5MgAg	ISO	International	Casting
EN AC-Al Cu4MgTi	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**