



## Material - BDS EN 1706 AC-Al Cu4MgTi

### 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 %	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.	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-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
EN AC-Al Cu4MgTi	AFNOR NF	France	Casting
Al Cu5MgAg	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)**

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