GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - DIN EN 1706 EN AC-21000 I EN AC-Al Cu4MgTi

Standard Specification for Aluminium and Aluminium Alloys - Castings

Group - Non-Ferrous Aluminium Alloys

Sub Group - DIN EN 1706 EN AC-21000 I EN AC-Al Cu4MgTi Aluminium and Aluminium Alloys - Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition		
Silicon	Si %	0.200 max.
Iron	Fe %	0.350 max.
Copper	Cu %	4.200 - 5.000
Manganese	Mn %	0.100 max.
Magnesium	Mg %	0.150 - 0.350
Nickel	Ni %	0.050 max.
Zinc	Zn %	0.100 max.
Lead	Pb %	0.050 max.
Tin	Sn %	0.050 max.
Titanium	Ti %	0.150 - 0.300
Other	Ot %	0.100 max.
Aluminium	Al %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Aging

Mechanical Properties	
Tensile Strength in Mpa	300 min.
Proof Strength in Mpa	200 min.
Elongation in %	5 min.
Reduction of Area in %	-
Hardness in HB	90 min.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
AC-21000	UNS	USA	Casting
3522 Al-Cu4 Mg Ti	ISO	International	Casting
1706 EN AC-21000	EN	European Union	Casting
1706 EN AC-Al Cu4MgTi	EN	European Union	Casting
H 5202 Al Cu4MgTi	JIS	Japan	Casting
H 2211 AC1B.1	JIS	Japan	Ingot and Casting
H 2211 AC1B.2	JIS	Japan	Ingot and 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

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.