GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - DIN EN 1706 EN AC-47000 I EN AC-Al Si12(Cu)

Standard Specification for Aluminium and Aluminium Alloys - Castings

Group - Non-Ferrous Aluminium Alloys

Sub Group - DIN EN 1706 EN AC-47000 I EN AC-Al Si12(Cu) 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 %	10.500 - 13.500
Iron	Fe %	0.800 max.
Copper	Cu %	1.000 max.
Manganese	Mn %	0.050 - 0.550
Magnesium	Mg %	0.350 max.
Chromium	Cr %	0.100 max.
Nickel	Ni %	0.300 max.
Zinc	Zn %	0.550 max.
Lead	Pb %	0.200 max.
Tin	Sn %	0.100 max.
Titanium	Ti %	0.200 max.
Other	Ot %	0.250 max.
Aluminium	Al %	Balance
-	-	-
-	-	-

Heat Treatment
As-Cast or Solution Aging

Mechanical Properties	
Tensile Strength in Mpa	150 min.
Proof Strength in Mpa	80 min.
Elongation in %	1 min.
Reduction of Area in %	-
Hardness in HB	50 min.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
AC-47000	UNS	USA	Casting
3522 Al-Si12	ISO	International	Casting
1706 EN AC-47000	EN	European Union	Casting
1706 EN AC-Al Si12(Cu)	EN	European Union	Casting
EN 1676 EN AB-47000	DIN	Germany	Casting
EN 1676 EN AB-Al Si12(Cu)	DIN	Germany	Casting
H 5202 Al Si12(Cu)	JIS	Japan	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.