



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - SFS EN 1706 AC-46000

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - SFS 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 %	2.000 -4.000	As-Cast	
Iron	Fe %	1.300 max.		
Magnesium	Mg %	0.050 -0.550		
Manganese	Mn %	0.550 max.		
Nickel	Ni %	0.550 max.		
Silicon	Si %	8.000 - 11.000		
Lead	Pb %	0.290 max.		
Tin	Sn %	0.150 max.		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	1.200 max.		
Chromium	Cr %	0.150 max.	Mechanical Properties Tensile Strength in Mpa 240 min. Yield Strength in Mpa 140 - 165 Elongation in % 1 min. Reduction of Area in % - Hardness in HB 80 - 85 Impact in Joule -	
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-46000	DIN	Germany	Casting
EN AC-46000	BS	British	Casting
EN AC-46000	ASME	USA	Casting
EN AC-46000	UNI	Italy	Casting
EN AC-46000	AFNOR NF	France	Casting
EN AC-46000	UNE	Spain	Casting
Al Si9Cu3(Fe)	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

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.

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