



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - BS EN 1706 AC-46400

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - BS 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 %	0.800 - 1.300	As-Cast	
Iron	Fe %	0.800 max.		
Magnesium	Mg %	0.250 -0.650		
Manganese	Mn %	0.150 - 0.550		
Nickel	Ni %	0.200 max.		
Silicon	Si %	8.300 -9.700		
Lead	Pb %	0.100 max.		
Tin	Sn %	0.100 max.		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	0.800 max.		
Other	Ot%	0.250 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	135 - 275
-	-	-	Yield Strength in Mpa	90 - 235
-	-	-	Elongation in %	1 - 2
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	60 - 105
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-46400	DIN	Germany	Casting
Al Si9Cu1Mg	ISO	International	Casting
EN AC-46400	ASME	USA	Casting
EN AC-46400	UNI	Italy	Casting
EN AC-46400	AFNOR NF	France	Casting
EN AC-46400	UNE	Spain	Casting
EN AC-46400	SFS	Finland	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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