



Material - CSN EN 1706 AC-45000

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - CSN 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 %	3.000 - 5.000	As-Cast	
Iron	Fe %	1.000 max.		
Magnesium	Mg %	0.550 max.		
Manganese	Mn %	0.200 - 0.650		
Nickel	Ni %	0.450 max.		
Silicon	Si %	5.000 - 7.000		
Lead	Pb %	0.290 max.		
Tin	Sn %	0.150 max.		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	2.000 max.		
Other	Ot%	0.350 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	150 - 170
-	-	-	Yield Strength in Mpa	90 - 135
-	-	-	Elongation in %	1 - 2
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	60 - 95
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-45000	DIN	Germany	Casting
EN AC-45000	BS	British	Casting
EN AC-45000	UNI	Italy	Casting
EN AC-45000	UNE	Spain	Casting
EN AC-45000	SFS	Finland	Casting
EN AC-45000	BDS	Bulgaria	Casting
Al Si6Cu4	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.