



## Material - DIN EN 1706 AC-45000

### Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - DIN 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.	<b>Mechanical Properties</b> 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      -	
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Al Si6Cu4	ISO	International	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
EN AC-45000	CSN	Czech Republic	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](mailto:marketing@gravitycastindia.com)**

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