



Material - UNI EN 1706 AC-45000

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - UNI 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
Al Si6Cu4	ISO	International	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

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