



## Material - UNI EN 1706 AC- 51000

### 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 %	0.100 max.	As-Cast	
Iron	Fe %	0.550 max.		
Magnesium	Mg %	2.500 - 3.500		
Manganese	Mn %	0.450 max.		
Silicon	Si %	0.550 max.		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	0.100 max.		
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	140 - 150
			Yield Strength in Mpa	70 min.
			Elongation in %	3 - 5
			Reduction of Area in %	-
			Hardness in HB	50 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-51000	DIN	Germany	Casting
EN AC-51000	BS	British	Casting
Al Mg3	ISO	International	Casting
EN AC-51000	AFNOR NF	France	Casting
EN AC-51000	UNE	Spain	Casting
EN AC-51000	SFS	Finland	Casting
EN AC-51000	BDS	Bulgaria	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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