



## Material - BS EN 1706 AC-48000

### 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 - 1.500	As-Cast or Aging	
Iron	Fe %	0.700 max.		
Magnesium	Mg %	0.800 - 1.500		
Manganese	Mn %	0.350 max.		
Nickel	Ni %	0.700 - 1.300		
Silicon	Si %	10.500 - 13.500		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	0.350 max.		
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      200 - 280 Yield Strength in Mpa      140 - 240 Elongation in %      1 min. Reduction of Area in %      - Hardness in HB      85 - 100 Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-48000	DIN	Germany	Casting
Al Si12CuMgNi	ISO	International	Casting
EN AC-48000	ASME	USA	Casting
EN AC-48000	UNI	Italy	Casting
EN AC-48000	AFNOR NF	France	Casting
EN AC-48000	UNE	Spain	Casting
EN AC-48000	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](mailto:marketing@gravitycastindia.com)**

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