



## Material - DIN EN 1706 AC-48000

### 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 %	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		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
Mechanical Properties				
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		-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Al Si12CuMgNi	ISO	International	Casting
EN AC-48000	BS	British	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)**

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.