

## Material: BS EN 1706 AC-48100

### 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 %	4.000 - 5.000	As-Cast	
Iron	Fe %	1.300 max.		
Magnesium	Mg %	0.250 - 0.650		
Manganese	Mn %	0.500 max.		
Nickel	Ni %	0.300 max.		
Silicon	Si %	16.000 - 18.000		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	1.500 max.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-	<b>Mechanical Properties</b> Tensile Strength in Mpa      200 - 285 Yield Strength in Mpa      160 - 260 Elongation in %      1 min. Reduction of Area in %      - Hardness in HB      90 - 125 Impact in Joule      -	
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-48100	DIN	Germany	Casting
Al Si17Cu4Mg	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

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