

## Material: BS EN 1706 AC-47100

### 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 %	0.700 -1.200	As-Cast	
Iron	Fe %	1.300 max.		
Magnesium	Mg %	0.350 max.		
Manganese	Mn %	0.550 max.		
Nickel	Ni %	0.300 max.		
Silicon	Si %	10.500 - 13.500		
Lead	Pb %	0.200 max.		
Tin	Sn %	0.100 max.		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	0.550 max.		
Chromium	Cr %	0.100 max.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		

  

Mechanical Properties	
Tensile Strength in Mpa	240 min.
Yield Strength in Mpa	140 min.
Elongation in %	1 min.
Reduction of Area in %	-
Hardness in HB	70 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-47100	DIN	Germany	Casting
Al Si12Cu1(Fe)	ISO	International	Casting
EN AC-47100	ASME	USA	Casting
EN AC-47100	UNI	Italy	Casting
EN AC-47100	AFNOR NF	France	Casting
EN AC-47100	UNE	Spain	Casting
EN AC-47100	SFS	Finland	Casting

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