

# Material: ISO 3522 Al Si17Cu4Mg

## Standard Specification for Aluminium and Aluminium Alloys

**Group:** Non-Ferrous Aluminium Alloy

**Sub Group:** ISO 3522 for Aluminium and Aluminium Alloys

**Application:** Intended for Valve, Pump, General Engineering, Automotive and Other Industries Grade

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Silicon	Si %	16.000 - 18.000	As-Cast	
Iron	Fe %	1.300 max.		
Copper	Cu %	4.000 - 5.000		
Manganese	Mn %	0.500 max.		
Magnesium	Mg %	0.450 - 0.650		
Nickel	Ni %	0.300 max.		
Zinc	Zn %	1.500 max.		
Tin	Sn %	0.300 max.		
Aluminium	Al %	Balance		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	200 min.
			Yield Strength in Mpa	180 min.
			Elongation in %	1 min.
			Reduction of Area in %	-
			Hardness in HBW	90 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-48100	DIN	Germany	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

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