

# Material: ASME EN 1706 AC-21100

## Standard Specification for Aluminium and Aluminium Alloys - Castings

**Group:** Non-Ferrous Aluminium Alloy

**Sub Group:** ASME EN 1706 Aluminium and Aluminium Alloys - Castings

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

**Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Copper	Cu %	4.500 - 5.200	As-Cast or Solution Anneling and Aging	
Iron	Fe %	0.190 max.		
Manganese	Mn %	0.550 max.		
Silicon	Si %	0.180 max.		
Titanium	Ti %	0.150 - 0.300		
Zinc	Zn %	0.070 max.		
Other	Ot%	0.100 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	280 - 450
			Yield Strength in Mpa	180 - 400
			Elongation in %	3 - 20
			Reduction of Area in %	-
			Hardness in HB	85 - 145
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Al Cu4Ti	ISO	International	Casting
EN AC-21100	DIN	Germany	Casting
EN AC-21100	UNE	Spain	Casting
EN AC-21100	SFS	Finland	Casting
EN AC-21100	MSZ	Hungary	Casting
EN AC-21100	AFNOR NF	France	Casting
EN AC-21100	BDS	Bulgaria	Casting

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