

Material - UNE EN 1706 AC-21100

Standard Specification for Aluminium and Aluminium Alloys - Castings

Group - Non-Ferrous Aluminium Alloy

Sub Group - UNE 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 Annealing 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
EN AC-21100	ASME	USA	Casting
EN AC-21100	DIN	Germany	Casting
Al Cu4Ti	ISO	International	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