

Material: DIN EN 1706 AC-46000

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: DIN 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 %	2.000 -4.000	As-Cast	
Iron	Fe %	1.300 max.		
Magnesium	Mg %	0.050 -0.550		
Manganese	Mn %	0.550 max.		
Nickel	Ni %	0.550 max.		
Silicon	Si %	8.000 - 11.000		
Lead	Pb %	0.290 max.		
Tin	Sn %	0.150 max.		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	1.200 max.		
Chromium	Cr %	0.150 max.	Mechanical Properties Tensile Strength in Mpa 240 min. Yield Strength in Mpa 140 - 165 Elongation in % 1 min. Reduction of Area in % - Hardness in HB 80 - 85 Impact in Joule -	
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Al Si9Cu3(Fe)	ISO	International	Casting
EN AC-46000	BS	British	Casting
EN AC-46000	ASME	USA	Casting
EN AC-46000	UNI	Italy	Casting
EN AC-46000	AFNOR NF	France	Casting
EN AC-46000	UNE	Spain	Casting
EN AC-46000	SFS	Finland	Casting

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