

Material: UNI EN 1706 AC-45100

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: UNI 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 %	2.600 - 3.600	As-Cast	
Iron	Fe %	0.600 max.		
Magnesium	Mg %	0.150 - 0.450		
Manganese	Mn %	0.550 max.		
Nickel	Ni %	0.100 max.		
Silicon	Si %	4.500 - 6.000		
Lead	Pb %	0.100 max.		
Tin	Sn %	0.050 max.		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	0.200 max.		
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance	Mechanical Properties Tensile Strength in Mpa 270 - 430 Yield Strength in Mpa 180 - 360 Elongation in % 1 - 3 Reduction of Area in % - Hardness in HB 85 - 130 Impact in Joule -	
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-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-45100	ASME	USA	Casting
EN AC-45100	DIN	Germany	Casting
EN AC-45100	BS	British	Casting
Al Si5Cu3Mg	ISO	International	Casting
EN AC-45100	AFNOR NF	France	Casting
EN AC-45100	UNE	Spain	Casting
EN AC-45100	SFS	Finland	Casting

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