

Material: UNI EN 1706 AC-46200

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 %	2.000 - 3.500	As-Cast	
Iron	Fe %	0.800 max.		
Magnesium	Mg %	0.050 - 0.550		
Manganese	Mn %	0.150 - 0.650		
Nickel	Ni %	0.350 max.		
Silicon	Si %	7.500 - 9.500		
Lead	Pb %	0.250 max.		
Tin	Sn %	0.150 max.		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	1.200 max.		
Other	Ot%	0.250 max.		
Aluminium	Al %	Balance	Mechanical Properties	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	150 - 370
			Yield Strength in Mpa	90 - 310
			Elongation in %	1 - 2
			Reduction of Area in %	-
			Hardness in HB	60 - 120
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-46200	DIN	Germany	Casting
EN AC-46200	BS	British	Casting
EN AC-46200	ASME	USA	Casting
Al Si8Cu3	ISO	International	Casting
EN AC-46200	UNE	Spain	Casting
EN AC-46300	SFS	Finland	Casting
EN AC-46200	AFNOR NF	France	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com