

Material: BS EN 1706 AC-45300

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: BS 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 %	1.000 - 1.500	As-Cast or Aging	
Iron	Fe %	0.650 max.		
Magnesium	Mg %	0.350 - 0.650		
Manganese	Mn %	0.550 max.		
Nickel	Ni %	0.250 max.		
Silicon	Si %	4.500 - 5.500		
Lead	Pb %	0.150 max.		
Tin	Sn %	0.050 max.		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	0.150 max.		
Other	Ot%	0.150 max.		
Aluminium	Al %	Balance		
-	-	-		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	170 - 280
Yield Strength in Mpa	120 - 210
Elongation in %	1 - 3
Reduction of Area in %	-
Hardness in HB	80 - 110
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-45300	ASME	USA	Casting
EN AC-45300	DIN	Germany	Casting
Al Si5Cu1Mg	ISO	International	Casting
EN AC-45300	UNI	Italy	Casting
EN AC-45300	AFNOR NF	France	Casting
EN AC-45300	UNE	Spain	Casting
EN AC-45300	SFS	Finland	Casting

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