



Material - ASME EN 1706 AC-45100

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - ASME 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.	Mechanical Properties	
Aluminium	Al %	Balance	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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Al Si5Cu3Mg	ISO	International	Casting
EN AC-45100	DIN	Germany	Casting
EN AC-45100	BS	British	Casting
EN AC-45100	UNI	Italy	Casting
EN AC-45100	AFNOR NF	France	Casting
EN AC-45100	UNE	Spain	Casting
EN AC-45100	SFS	Finland	Casting

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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