



## Material - BS EN 1706 AC-45200

### 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 %	2.500 - 4.000	As-Cast	
Iron	Fe %	0.800 max.		
Magnesium	Mg %	0.400 max.		
Manganese	Mn %	0.200 - 0.550		
Nickel	Ni %	0.030 max.		
Silicon	Si %	4.500 - 6.000		
Lead	Pb %	0.200 max.		
Tin	Sn %	0.010 max.		
Titanium	Ti %	0.200 max.		
Zinc	Zn %	0.550 max.		
Other	Ot%	0.250 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	140 - 280
-	-	-	Yield Strength in Mpa	70 - 230
-	-	-	Elongation in %	1
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	60 - 90
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-45200	DIN	Germany	Casting
Al Si5Cu3Mn	ISO	International	Casting
EN AC-45200	UNI	Italy	Casting
EN AC-45200	UNE	Spain	Casting
EN AC-45200	SFS	Finland	Casting
EN AC-45200	BDS	Bulgaria	Casting
EN AC-45200	CSN	Czech Republic	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](mailto:marketing@gravitycastindia.com)**

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