



## Material - BS EN 1706 AC-46300

### 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 %	3.000 - 4.000	As-Cast	
Iron	Fe %	0.800 max.		
Magnesium	Mg %	0.300 - 0.600		
Manganese	Mn %	0.200 - 0.650		
Nickel	Ni %	0.300 max.		
Silicon	Si %	6.500 - 8.000		
Lead	Pb %	0.150 max.		
Tin	Sn %	0.100 max.		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	0.650 max.		
Other	Ot%	0.250 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	180 - 255
-	-	-	Yield Strength in Mpa	100 - 180
-	-	-	Elongation in %	1 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	80 - 85
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-46300	DIN	Germany	Casting
Al Si7Cu3Mg	ISO	International	Casting
EN AC-46300	ASME	USA	Casting
EN AC-46300	UNI	Italy	Casting
EN AC-46300	UNE	Spain	Casting
EN AC-46300	SFS	Finland	Casting
EN AC-46300	BDS	Bulgaria	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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