



## Material - UNI EN 1706 AC-46100

### 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 -4.000	As-Cast	
Iron	Fe %	1.300 max.		
Magnesium	Mg %	0.050 -0.550		
Manganese	Mn %	0.550 max.		
Nickel	Ni %	0.550 max.		
Silicon	Si %	8.000 - 11.000		
Lead	Pb %	0.290 max.		
Tin	Sn %	0.150 max.		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	3.00 max.		
Chromium	Cr %	0.150 max.	Mechanical Properties	
Other	Ot%	0.250 max.	Tensile Strength in Mpa	240 min.
Aluminium	Al %	Balance	Yield Strength in Mpa	140 min.
-	-	-	Elongation in %	1 min.
-	-	-	Reduction of Area in %	-
			Hardness in HB	80 min.
			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-46100	DIN	Germany	Casting
EN AC-46100	BS	British	Casting
EN AC-46100	ASME	USA	Casting
Al Si11Cu2(Fe)	ISO	International	Casting
EN AC-46100	AFNOR NF	France	Casting
EN AC-46100	UNE	Spain	Casting
EN AC-46100	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](mailto:marketing@gravitycastindia.com)**

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