



## Material - BS EN 1706 AC- 51400

### 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 %	0.050 max.	As-Cast			
Iron	Fe %	0.550 max.				
Magnesium	Mg %	4.500 - 6.500				
Manganese	Mn %	0.450 max.				
Silicon	Si %	1.500 max.				
Titanium	Ti %	0.200 max.				
Beryllium	Be %	0.005 max.				
Zinc	Zn %	0.100 max.				
Other	Ot%	0.150 max.				
Aluminium	Al %	Balance				
-	-	-	<b>Mechanical Properties</b>			
-	-	-			Tensile Strength in Mpa	160 - 180
-	-	-			Yield Strength in Mpa	100 - 110
-	-	-			Elongation in %	3 min.
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in HB	60 - 65
-	-	-			Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-51400	DIN	Germany	Casting
Al Mg5(Si)	ISO	International	Casting
EN AC-51400	ASME	USA	Casting
EN AC-51400	AFNOR NF	France	Casting
EN AC-51400	UNE	Spain	Casting
EN AC-51400	UNI	Italy	Casting
EN AC-51400	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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