



Material - BDS EN 1706 AC-46600

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - BDS 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 %	1.500 - 2.500	As-Cast	
Iron	Fe %	0.800 max.		
Magnesium	Mg %	0.350 max.		
Manganese	Mn %	0.150 - 0.650		
Nickel	Ni %	0.350 max.		
Silicon	Si %	6.000 - 8.000		
Lead	Pb %	0.250 max.		
Tin	Sn %	0.150 max.		
Titanium	Ti %	0.250 max.		
Zinc	Zn %	1.000 max.		
Other	Ot%	0.150 max.	Mechanical Properties	
Aluminium	Al %	Balance	Tensile Strength in Mpa	150 - 170
-	-	-	Yield Strength in Mpa	90 - 100
-	-	-	Elongation in %	1 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	60 - 75
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-46600	DIN	Germany	Casting
EN AC-46600	BS	British	Casting
EN AC-46600	UNI	Italy	Casting
EN AC-46600	UNE	Spain	Casting
EN AC-46600	SFS	Finland	Casting
Al Si7Cu2	ISO	International	Casting
EN AC-46600	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

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