



Material - BS EN 1706 AC- 51200

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 %	0.100 max.	As-Cast															
Iron	Fe %	1.000 max.																
Magnesium	Mg %	8.000 - 10.500																
Manganese	Mn %	0.550 max.																
Nickel	Ni %	0.100 max.																
Silicon	Si %	2.500 max.																
Titanium	Ti %	0.200 max.																
Lead	Pb %	0.100 max.																
Tin	Sn %	0.100 max.																
Beryllium	Be %	0.005 max.																
Zinc	Zn %	1.500 max.	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>160 - 180</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>100 - 110</td> </tr> <tr> <td>Elongation in %</td> <td>3 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HB</td> <td>60 - 65</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		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	-
Mechanical Properties																		
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	-																	
Other	Ot%	0.250 max.																
Aluminium	Al %	Balance																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-51200	DIN	Germany	Casting
Al Mg9	ISO	International	Casting
EN AC-51200	ASME	USA	Casting
EN AC-51200	AFNOR NF	France	Casting
EN AC-51200	UNE	Spain	Casting
EN AC-51200	UNI	Italy	Casting
EN AC-51200	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.