



Material - UNE EN 1706 AC- 71000

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group - Non-Ferrous Aluminium Alloy

Sub Group - UNE 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 %	0.150 - 0.350	As-Cast or Aging															
Iron	Fe %	0.800 max.																
Magnesium	Mg %	0.400 - 0.700																
Manganese	Mn %	0.400 max.																
Nickel	Ni %	0.050 max.																
Silicon	Si %	0.300 max.																
Titanium	Ti %	0.100 - 0.250																
Lead	Pb %	0.050 max.																
Tin	Sn %	0.050 max.																
Chromium	Cr %	0.150 - 0.600																
Zinc	Zn %	4.500 - 6.000	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>190 - 210</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>120 - 130</td> </tr> <tr> <td>Elongation in %</td> <td>4 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HB</td> <td>60 - 62</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	190 - 210	Yield Strength in Mpa	120 - 130	Elongation in %	4 min.	Reduction of Area in %	-	Hardness in HB	60 - 62	Impact in Joule	-
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Other	Ot%	0.150 max.																
Aluminium	Al %	Balance																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-71000	DIN	Germany	Casting
EN AC-71000	BS	British	Casting
EN AC-71000	UNI	Italy	Casting
EN AC-71000	AFNOR NF	France	Casting
Al Zn5Mg	ISO	International	Casting
EN AC-71000	SFS	Finland	Casting
EN AC-71000	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

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