



## Material - UNE EN 1706 AC-48100

### 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 %	4.000 - 5.000	As-Cast															
Iron	Fe %	1.300 max.																
Magnesium	Mg %	0.250 - 0.650																
Manganese	Mn %	0.500 max.																
Nickel	Ni %	0.300 max.																
Silicon	Si %	16.000 - 18.000																
Tin	Sn %	0.150 max.																
Titanium	Ti %	0.250 max.																
Zinc	Zn %	1.500 max.																
Other	Ot%	0.250 max.																
Aluminium	Al %	Balance	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>200 - 295</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>160 - 260</td> </tr> <tr> <td>Elongation in %</td> <td>1 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HB</td> <td>90 - 125</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	200 - 295	Yield Strength in Mpa	160 - 260	Elongation in %	1 min.	Reduction of Area in %	-	Hardness in HB	90 - 125	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-48100	DIN	Germany	Casting
EN AC-48100	ASME	USA	Casting
EN AC-48100	UNI	Italy	Casting
EN AC-48100	AFNOR NF	France	Casting
B 390	AA	USA	Casting
EN AC-48100	SFS	Finland	Casting
EN AC-48100	MSZ	Hungary	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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