

Material: UNI EN 1706 AC-46300

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: UNI 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 %	3.000 - 4.000	As-Cast															
Iron	Fe %	0.800 max.																
Magnesium	Mg %	0.300 - 0.600																
Manganese	Mn %	0.200 - 0.650																
Nickel	Ni %	0.300 max.																
Silicon	Si %	6.500 - 8.000																
Lead	Pb %	0.150 max.																
Tin	Sn %	0.100 max.																
Titanium	Ti %	0.250 max.																
Zinc	Zn %	0.650 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>180 - 255</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>100 - 180</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>80 - 85</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	180 - 255	Yield Strength in Mpa	100 - 180	Elongation in %	1 min.	Reduction of Area in %	-	Hardness in HB	80 - 85
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-46300	DIN	Germany	Casting
EN AC-46300	BS	British	Casting
EN AC-46300	ASME	USA	Casting
Al Si7Cu3Mg	ISO	International	Casting
EN AC-46300	UNE	Spain	Casting
EN AC-46300	SFS	Finland	Casting
EN AC-46300	BDS	Bulgaria	Casting

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