

Material: ASME EN 1706 AC-46500

Standard Specification for Aluminium and Aluminium Alloys - Casting

Group: Non-Ferrous Aluminium Alloy

Sub Group: ASME 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 %	2.000 -4.000	As-Cast															
Iron	Fe %	1.300 max.																
Magnesium	Mg %	0.050 -0.550																
Manganese	Mn %	0.550 max.																
Nickel	Ni %	0.550 max.																
Silicon	Si %	8.000 - 11.000																
Lead	Pb %	0.290 max.																
Tin	Sn %	0.150 max.																
Titanium	Ti %	0.250 max.																
Zinc	Zn %	3.00 max.																
Chromium	Cr %	0.150 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>240 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>140 min.</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 min.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	240 min.	Yield Strength in Mpa	140 min.	Elongation in %	1 min.	Reduction of Area in %	-	Hardness in HB	80 min.	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-46500	DIN	Germany	Casting
EN AC-46500	BS	British	Casting
Al Si9Cu3(Fe)(Zn)	ISO	International	Casting
EN AC-46500	UNI	Italy	Casting
EN AC-46500	AFNOR NF	France	Casting
EN AC-46500	UNE	Spain	Casting
EN AC-46500	SFS	Finland	Casting

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