

Material: SFS EN 1706 AC-44000

Standard Specification for Aluminium and Aluminium Alloys - Castings

Group: Non-Ferrous Aluminium Alloy

Sub Group: SFS EN 1706 Aluminium and Aluminium Alloys - Castings

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 %	0.650 max.														
Magnesium	Mg %	0.100 max.														
Manganese	Mn %	0.500 max.														
Nickel	Ni %	0.050 max.														
Silicon	Si %	8.000 - 11.000														
Lead	Pb %	0.050 max.														
Tin	Sn %	0.050 max.														
Titanium	Ti %	0.150 max.														
Zinc	Zn %	0.150 max.														
Other	Ot%	0.150 max.														
Aluminium	Al %	Balance														
-	-	-			Mechanical Properties <table border="1"> <tr> <td>Tensile Strength in Mpa</td> <td>170 - 220</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>80 - 120</td> </tr> <tr> <td>Elongation in %</td> <td>2 - 5</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HB</td> <td>50 - 55</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </table>		Tensile Strength in Mpa	170 - 220	Yield Strength in Mpa	80 - 120	Elongation in %	2 - 5	Reduction of Area in %	-	Hardness in HB	50 - 55
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-44000	ASME	USA	Casting
EN AC-44000	DIN	Germany	Casting
EN AC-44000	UNE	Spain	Casting
Al Si9	ISO	International	Casting
EN AC-44000	MSZ	Hungary	Casting
EN AC-44000	AFNOR NF	France	Casting
EN AC-44000	BDS	Bulgaria	Casting

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