

## Material: SFS EN 1706 AC-42100

### 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 %	0.050 max.	As-Cast or Solution Anneling and Aging															
Iron	Fe %	0.190 max.																
Magnesium	Mg %	0.250 - 0.450																
Manganese	Mn %	0.100 max.																
Silicon	Si %	6.500 - 7.500																
Titanium	Ti %	0.250 max.																
Zinc	Zn %	0.070 max.																
Other	Ot%	0.100 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 - 340</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>120 - 280</td> </tr> <tr> <td>Elongation in %</td> <td>2 - 12</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HB</td> <td>60 - 125</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	200 - 340	Yield Strength in Mpa	120 - 280	Elongation in %	2 - 12	Reduction of Area in %	-	Hardness in HB	60 - 125	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-42100	DIN	Germany	Casting
EN AC-42100	BS	British	Casting
EN AC-42100	UNE	Spain	Casting
EN AC-42100	UNI	Italy	Casting
Al Si7Mg0.3	ISO	International	Casting
EN AC-42100	AFNOR NF	France	Casting
EN AC-42100	MSZ	Hungary	Casting

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