

# Material: CSN EN 1706 AC-45300

## Standard Specification for Aluminium and Aluminium Alloys - Castings

**Group:** Non-Ferrous Aluminium Alloy

**Sub Group:** CSN 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 %	1.000 - 1.500	As-Cast															
Iron	Fe %	0.650 max.																
Magnesium	Mg %	0.350 - 0.650																
Manganese	Mn %	0.550 max.																
Nickel	Ni %	0.250 max.																
Silicon	Si %	4.500 - 5.500																
Lead	Pb %	0.150 max.																
Tin	Sn %	0.050 max.																
Titanium	Ti %	0.200 max.																
Zinc	Zn %	0.150 max.																
Other	Ot%	0.150 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>170 - 280</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>120 - 210</td> </tr> <tr> <td>Elongation in %</td> <td>1 - 3</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in HB</td> <td>80 - 110</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	170 - 280	Yield Strength in Mpa	120 - 210	Elongation in %	1 - 3	Reduction of Area in %	-	Hardness in HB	80 - 110
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN AC-45300	DIN	Germany	Casting
EN AC-45300	EN	European Union	Casting
EN AC-45300	UNI	Italy	Casting
EN AC-45300	SFS	Finland	Casting
EN AC-45300	AFNOR NF	France	Casting
LM16	BS	British	Ingot and Casting
EN AC-45300	BDS	Bulgaria	Casting

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