



Standard: **EN 1706 ALUMINUM AND ALUMINUM ALLOYS CASTINGS**  
**EN 1676 ALUMINUM ALLOYED INGOTS FOR REMELTING**

Alloy group: **Al Si 10 Mg**

Alloy designation: **EN AB and AC 43100 Al Si 10 Mg (a)**

Replaces: **DIN 239 A - Al Si 10 M10 Mg**

#### CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Individual impurities	Global impurities
EN AB 43100	min	9,0				0,25								
	max	11,0	0,45	0,08	0,45	0,45	-	0,05	0,10	0,05	0,05	0,15	0,05	0,15
DIN 239 A - Al Si 10 Mg	min	9,0				0,20								
	max	11,0	0,50	0,05	0,4	0,50	-	0,05	0,10	0,05	0,05	0,15	0,05	0,15

#### MECHANICAL FEATURES DETECTED FROM SEPARATE CASTING TEST SPECIMENS

Casting process	Temper designations	Rm Tensile strength		Sp 0,2 Proof Stress		A Elongation		HB Brinell hardness	
		EN 1706	DIN 1725	EN 1706	DIN 1725	EN 1706	DIN 1725	EN 1706	DIN 1725
		Mpa	N/mm2	Mpa	N/mm2	%	%	HBW	HB
SAND (as cast)	F	150	160 - 210	80	80 - 110	2	2 - 6	50	50 - 60
	T6	220	220 - 320	180	180 - 260	1	1 - 4	75	80 - 110
CHILL (as cast)	F	180	180 - 240	90	90 - 120	2,5	2 - 6	55	60 - 80
	T6	260	240 - 320	220	210 - 280	1	1 - 4	90	85 - 115
Hardened and Sub-aged artif.	T64	240		200		2		80	
PRESSURE DIE (as cast)									

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