



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

Alloy group: **Al Si**

Alloy designation: **EN AB 44000 and AC Al Si 11**

Replaces:

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Individual impurities	Global impurities
EN AB 44000	min	10,0												
	max	11,8	0,15	0,03	0,10	0,45	-	-	0,07	-	-	0,15	0,03	0,10
	min	10,0				0,10								
	max	11,8	0,15	0,02	0,05	0,45	-	-	0,07	-	-	0,15	0,03	0,10

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		EN 1706		EN 1706		EN 1706	
		Mpa	N/mm2	Mpa	N/mm2	%	%	HBW	HB
SAND (as cast)	F	150	170 - 220	70	80 - 140	6	2 - 4	45	50 - 60
	T6		200 - 320		120 - 300		1 - 3		65 - 120
CHILL (as cast)	F	170	180 - 230	80	80 - 130	7	5 - 16	45	55 - 75
	T6		210 - 350		125 - 320		4 - 15		70 - 125
PRESSURE DIE (as cast)									

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