



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

Alloy group: **Al Si**

Alloy designation: **EN AB and AC 44100 - Al Si 12 (b)**

Replaces: **UNI 4514 = G Al Si 13**

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												Individual impurities	Global impurities
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti			
EN AB 44100	min	10,5													
	max	13,5	0,55	0,10	0,55	0,10	-	0,10	0,15	0,10	-	0,15	0,05	0,15	
UNI 4514 - G Al Si 13	min	12,0													
	max	13,5	0,6	0,05	0,4	0,05	-	0,01	0,08			0,10		0,15*	

*Exc.Fe+Mn+Ti

MECHANICAL FEATURES DETECTED FROM SEPARATE CASTING TEST SPECIMENS

Casting process	Temper designations	Rm Tensile strenght		Sp 0,2 Proof Stress		A Elongation		HB Brinell hardness	
		EN 1706	UNI 4514	EN 1706	UNI 4514	EN 1706	UNI 4514	EN 1706	UNI 4514
		Mpa	N/mm2	Mpa	N/mm2	%	%	HBW	HB
SAND (as cast) Annealed	F	150	165-195	70	80-100	4	4-8	50	50-60
	T5		155-195		70-110		6-10		50-60
CHILL (as cast) Annealed	F	170	175-215	80	90-110	5	5-7	55	55-65
	T5		165-215		80-100		6-10		50-60
PRESSURE DIE (as cast)	F		225-265		125-165		1,5-2,5		75-95

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