



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 44200 Al Si 12 (a)**

Replaces: **DIN 230 A**

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												Individual impurities	Global impurities
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti			
EN AB 44200	min	10,5													
	max	13,5	0,40	0,03	0,35	-	-	-	0,10	-	-	0,15	0,05	0,15	
DIN 230 A	min	10,5													
	max	13,5	0,5	0,05	0,4	0,05	-	-	0,10	-	-	0,15	0,05	0,15	

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	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	150 - 200	70	70-100	5	5-10	50	45-60
	T5		150 - 200		70-100		6-12		45-60
CHILL (as cast)	F	170	170 - 230	80	80-110	6	6-12	55	50-65
	T5		170 - 230		80-110		6-12		50-65
PRESSURE DIE (as cast)									

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