



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

Alloy group: **Al Si 9 Cu**

Alloy designation: **EN AB and AC 46100 - Al Si 11 Cu 2 (Fe)**

Replaces: **UNI 7363 - SG Al Si 132**

### CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Individual impurities	Global impurities
EN AB 46100	min	10,0	0,45	1,5										
	max	12,0	1,0	2,5	0,55	0,30	0,15	0,45	1,7	0,25	0,15	0,20	0,05	0,25
UNI 7363 - SG Al Si 132	min	11,0	0,70	1,75										
	max	12,5	1,0	2,50	0,5	0,30	-	0,30	1,40	0,15	0,10	0,20		2,20

### 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 7363	EN 1706	UNI 7363	EN 1706	UNI 7363	EN 1706	UNI 7363
		Mpa	N/mm2	Mpa	N/mm2	%	%	HBW	HB
SAND (as cast)									
Annealed									
CHILL (as cast)									
Annealed									
PRESSURE DIE (as cast)	F	240	265-295	140	155-195	1	1,5-2,5	80	85-100

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