



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 47000 - Al Si 12 (Cu)**

Replaces: **UNI 7396/2 - SG al Si 1°**

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												Individual impurities	Global impurities
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti			
EN AB 47000	min	10,5			0,05										
	max	13,5	0,70	0,90	0,55	0,35	0,10	0,30	0,55	0,20	0,10	0,15	0,05	0,25	
UNI 7369/2	min	11,5			0,20										
	max	13,5	0,8	0,80	0,4	0,30	-	0,30	0,50	0,15	0,10	0,15		1.2*	

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 7369/2	EN 1706	UNI 7369/2	EN 1706	UNI 7369/2	EN 1706	UNI 7369/2
		Mpa	N/mm2	Mpa	N/mm2	%	%	HBW	HB
SAND (as cast)	F	150	145-175	80	100-120	1	1-1,5	50	50-65
CHILL (as cast)	F	170	175-215	90	100-130	2	2-5	55	60-75
PRESSURE DIE (as cast)									

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