



Standard: **EN 1706 ALUMINIUM AND ALUMINIUM ALLOY CASTINGS**
EN 1676 ALUMINIUM ALLOYED INGOTS FOR REMELTING

Alloy Group: **Al Si 9 (Cu)**

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

Alloy Designation: **EN AB and AC 47000 - Al Si 12 (Cu)**

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Individual Impurities	Global Impurities
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	13,0	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 Mpa	UNI 7369/2 N/mm2	EN 1706 Mpa	UNI 7369/2 N/mm2	EN 1706 %	UNI 7369/2 %	EN 1706 HBW	UNI 7369/2 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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