



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

Alloy Group: **Al Si 9 Cu**

Replaces: **LM 27**

Alloy Designation: **EN AB and AC 46600 - Al Si 7 Cu 2**

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Individual Impurities	Global Impurities
EN AB 46600	min	6,0		1,5	0,15									
	max	8,0	0,7	2,5	0,65	0,35	-	0,35	1,0	0,25	0,15	0,20	0,05	0,15
LM 27	min	6,0		1,50	0,20									
	max	8,0	0,80	2,50	0,65	0,35	-	0,35	1,00	0,25	0,15	0,20	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 Mpa	BS 1490:88 N/mm2	EN 1706 Mpa	BS 1490:88 N/mm2	EN 1706 %	BS 1490:88 %	EN 1706 HBW	BS 1490:88 HB
SAND (as cast)	F	150	140	90	80-90	1	1	60	70-85
CHILL (as cast)	F	170	160	100	90-110	1	2	75	75-90
PRESSURE DIE (as cast)									

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