



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 46600 - Al Si 7 Cu 2**

Replaces: **LM 27**

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												Individual impurities	Global impurities
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti			
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	BS 1490:88	EN 1706	BS 1490:88	EN 1706	BS 1490:88	EN 1706	BS 1490:88
		Mpa	N/mm2	Mpa	N/mm2	%	%	HBW	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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