



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 46500 - Al Si 9 Cu 3 (Fe)(Zn)**

Replaces: **LM 24**

### CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												Individual impurities	Global impurities
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti			
EN AB 46500	min	8,0	0,60	2,00		0,15									
	max	11,0	1,20	4,00	0,55	0,55	0,15	0,55	3,00	0,35	0,25	0,20	0,05	0,25	
LM 24	min	7,5		3,00											
	max	9,5	1,3	4,00	0,55	0,30	0,15	0,55	3,00	0,35	0,25	0,20	0,05	0,25	

### 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)	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
CHILL (as cast)		-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-
PRESSURE DIE (as cast)	F	240	180 - 320	140	100 - 150	1	1 - 3	80	80 - 100

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