GKR METAL



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

Alloy Group: **Al Si**

Replaces: **UNI 4514 = G Al Si 13**

Alloy Designation: **EN AB and AC 44100 - Al Si 12 (b)**

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Individual Impurities	Global Impurities
EN AB 44100	min	10,5												
	max	13,5	0,55	0,10	0,55	0,10		0,10	0,15	0,10		0,15	0,05	0,15
UNI 4514 - G Al Si 13	min	12,0												
	max	13,5	0,6	0,05	0,4	0,05		0,01	0,08			0,10		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	UNI 4514 N/mm2	EN 1706 Mpa	UNI 4514 N/mm2	EN 1706 %	UNI 4514 %	EN 1706 HBW	UNI 4514 HB
SAND (as cast) Annealed	F	150	165-195	70	80-100	4	4-8	50	50-60
	T5		155-195		70-110		6-10		50-60
CHILL (as cast) Annealed	F	170	175-215	80	90-110	5	5-7	55	55-65
	T5		165-215		80-100		6-10		50-60
PRESSURE DIE (as cast)	F		225-265		125-165		1,5-2,5		75-95

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