GKR METAL



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

Alloy Group: **Al Si 5 Mg**

Replaces: **UNI 3600 - G Al Si 5 Cu Mg**

Alloy Designation: **EN AB and AC 45300 - Al Si 5 Cu 1 Mg**

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Individual Impurities	Global Impurities
EN AB 45300	min	4,5		1,0		0,40								
	max	5,5	0,55	1,5	0,55	0,65	-	0,25	0,15	0,15	0,05	0,20	0,05	0,15
UNI 3600 - G AI Si 5 Cu Mg	min	4,5		1,10		0,45								
	max	5,5	0,5	1,50	0,1	0,65	-	0,10	0,05			0,15		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 3600 N/mm2	EN 1706 Mpa	UNI 3600 N/mm2	EN 1706 %	UNI 3600 %	EN 1706 HBW	UNI 3600 HB
SAND (as cast)	F		145-175		125-145		1-2		65-85
	T4	170	215-245	120	155-185	2	2-3	80	85-100
	T6 2	230	245-265	200	185-215	1	1-2	100	95-110
CHILL (as cast)	F		205-245		125-155		4-5		70-95
	T4	230	305-345	140	195-235	3	5-9	85	100-130
	T6 3	280	345-390	210	275-315	1	2-5	110	110-140

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