GKR METAL



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

Alloy Group: **Al Si 10 Mg**

Replaces: **DIN 239 A - Al Si 10 M10 Mg**

Alloy Designation: **EN AB and AC 43000 Al Si 10 Mg (a)**

CHEMICAL COMPOSITION %

ALLOY		ELEMENTS												
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti	Individual Impurities	Global Impurities
EN AB 43000	min	9,0				0,25								
	max	11,0	0,40	0,03	0,45	0,45		0,05	0,10	0,05	0,05	0,15	0,05	0,15
DIN 239 A - Al Si 10 Mg	min	9,0				0,20								
	max	11,0	0,50	0,05	0,4	0,50		0,05	0,10	0,05	0,05	0,15	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	DIN 1725 N/mm2	EN 1706 Mpa	DIN 1725 N/mm2	EN 1706 %	DIN 1725 %	EN 1706 HBW	DIN 1725 HB
SAND (as cast) Hardened and Aged artif.	F	150	160-210	80	80-110	2	2-6	50	50-60
	T6	220	220-320	180	180-260	1	1-4	75	80-110
CHILL (as cast) Hardened and Aged artif.	F	180	180-240	90	90-120	2,5	2-6	55	60-80
	T6	260	240-320	220	210-280	1	1-4	90	85-115
Hardened and Sub-aged artif.	T64	240		200		2		80	
PRESSURE DIE (as cast)									

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