



Standard: **EN 1706 ALUMINUM AND ALUMINUM ALLOYS CASTINGS**  
**EN 1676 ALUMINUM ALLOYED INGOTS FOR REMELTING**

Alloy group: **Al Si**

Alloy designation: **EN AB and AC 44300 Al Si 12 (Fe)(a)**

Replaces: **DIN 230 D - GD Al Si 12**

#### CHEMICAL COMPOSITION %

ALLOY		ELEMENTS											Individual impurities	Global impurities
		Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Pb	Sn	Ti		
EN AB 44300	min	10,5	0,45											
	max	13,5	0,90	0,08	0,55	-	-	-	0,15	-	-	0,15	0,05	0,25
DIN 230 D - GD Al Si 12	min	10,5												
	max	13,5	1,00	0,10	0,4	-	-	-	0,15	-	-	0,15	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	DIN 1725	EN 1706	DIN 1725	EN 1706	DIN 1725	EN 1706	DIN 1725
		Mpa	N/mm2	Mpa	N/mm2	%	%	HBW	HB
SAND (as cast)			-		-	-	-	-	
			-		-	-	-	-	
CHILL (as cast)			-		-	-	-	-	
			-		-	-	-	-	
PRESSURE DIE (as cast)	F	240	220 - 280	130	140 - 180	1	1 - 3	60	60 - 100

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