Alloy	Alloy designation	Castablity			Other properties										Mechanical properties			
Group	ISO Chemicalsymbols	Fluidity 1	1 esistance to hottearing2	ressure tightness	Machinab ility as cast	machinabilit y after heat treatment	Resistance tocorrosion	Decorative anodizing	Ability to bewelded	ability to bepolished	Linear thermal expansion	Elextric alonductivity MS/m	Thermal conductivityW/(m.k)	Strength at room temperature	elevated temperature	Ductility (shockres istance)	Fatigue strengthMpa	
A1	A199.7 A199.5	C C	D	B	C C	N/A N/A	A	A	B	B	21 21	36 35	210 210	E	E	A	N/A N/A	
111	AA1100 A1Si9	٨	Δ	C	С	N/A	Simil; C	ar with Al9 E	-		est use it fo:			С	С	C	60±090	
A1Si	AC4440	A C C E D D 21 16to22 130to150 C C C 60to90																
	359	SYX Die Casting Company www.gdszsyx.com Similar with AlSi9																
	AlSi12(Fe) AC44300	A	A	С	С	N/A	С	E	D	D	20	16to22	130to160	В	С	С	60to90	
	ADC1 413 A413	SYX Die Casting Company www.gdszsyx.com Similar with Alsi12(Fe)																
AlSi 9	YL102 A1Si8Cu3	В	В	В	В	N/A	D	E	В	С	21	14to18	110to130	В	A	С	60to90	
	AC46200 A380																	
	380 YL112	Similar with AlSi8Cu3, common mateial, similar AlSi9Cu group																
	A1Si9Cu3(Fe)	В	В	С	В	N/A	D	E	F	С	21	13to17	110to120	В	A	D	60to90	
	AC46000 ADC12																	
	A383 A384					S	imilar with A	AlSi9Cu3(Fe), common d	ie casting m	mateial, sim	ilar with AlS	i9Cu group					
	YL113 A1Si9Cu3(Fe)(_														
	Zn) AC46500	В	В	В	В	N/A	D	E	F	C	21	13to17	110to120	В	A	D	60to90	
	ADC10 A380						S	imilar with	AlSi9Cu3(F	e)(Zn), simi	ilar with AlS	i9Cu group						
	AlSillCu2(Fe)	A	В	С	С	N/A	D	E	F	С	20	14to18	120to150	В	В	D	60to90	
	AC46100 ADC12																	
	A384	Similar with AlSi11Cu2(Fe),																
	YL108 AlSi11Cu3(Fe)	A	В	С	С	N/A	D	E	F	С	20	14to18	120to150	В	В	D	60to90	
	YL113								with AlSi1	1Cu3(Fe), si	imilar with A	1Si9Cu			_			
AlSi	AlSi12Cu1(Fe) AC47100	A A C N/A C E F C 20 120to150 B B C 60to90 Similar with AlSi12Cu1(Fe)																
12Cu	AA384 AlSi17Cu4Mg	D	С	В	E	В	D	D	D	D	112001 (1	24	139to190	В	В	E	60to90	
AlSi	B390								Similar	with A	lSil7Cu							
17Cu	ADC14 YL117				-				Similar	with A	.15117.Cu							
AlMg	A1Mg9 AC51200	С	D	D	A	N/A	A	В	С	A	24	11to14	60to90	С	В	С	60to90	
	520 YL302				Si	milar	with A	1Mg9,	YL302	actua	lly is	simila	r with	Almg5				
1. Fluid	dity of an al	10v +c	maka +	hin wel	1 00	etinge g	and repr	oduce f	ine det									
2. Hot t	tearing												1					
3. Press	y for a c sure tigh	tness					o the de	velopme	nt of i	nternal.	l stress	during :	solidific	ation				
	y not to u finding						el free	<u>to con</u> t	act_syx	www.go	<u>lszsyx.</u> co	o <u>m sale</u> s(<u>Øgdszsy</u> x.	com				