



Sheet 1 : The grades of Al-Si(Mg) cast aluminum alloy in different countries

China GB		ISO	JIS	□ OCT	EN	NF	DIN	BS	UNI	America	
Brand	Code									AA	SAE
ZAlSi7Mg	ZL101	Al-Si7Mg(Fe)	AC4C	A□ □ (A□ 9B) AK7	ENAC - 42100	A-S7G	~AlSi7Mg	LM25	3599	356.0	323
ZAlSi7MgA	ZL101A	Al-Si7Mg	AC4CH	A□ □-1	ENAC - 42100	A-S7G03	AlSi7Mg (3.2371)	2L99	8024	A356.0	336
ZAlSi12	ZL102	Al-Si12	AC3A	A□ □	ENAC - 44100	A-S13	AlSi12 (3.2581)	LM6	4514	413.0 B413.0	305
ZAlSi9Mg	ZL104	~Al-Si10Mg	AC4A	A□ □ (A□ 4B) AK9	ENAC - 43300	A-S9G A-S10G	AlSi9Mg (3.2373)	LM9	3051	360.0	309
-	-	Al-Si5	-	-	-	-	AlSi5Mg (3.2341)	-	5077	A 443.0	-
-	-	Al-Si5Fe	-	-	ENAC - 45300	-	-	-	GD- AlSi5Fe	B443.0	-
-	-	(AlSi7Fe)	-	AK7	ENAC - 42000	-	-	-	-	A444.0	-



-	-	Al-Si12Fe	ADC1	~A□ □	ENAC - 47100	~A-S12	-	LM20	5079	413.0	-
---	---	-----------	------	-------	--------------	--------	---	------	------	-------	---

Sheet2 : The grades of Al-Si-Cu-(Mg , Ni) cast aluminum alloy in different countries

China GB		ISO	JIS	□ OCT	EN	NF	DIN	BS	UNI	America	
Brand	code									AA	SAE
ZAlSi5Cu1Mg	ZL105	Al-Si5Cu1Mg	AC4D	A□ 5	ENAC- 45300	2A-S5U	AlSi5(Cu) (3.21.34)	LM16	3600	355.0	322
ZAlSi5Cu1MgA	ZL105A	-	-	A□ 5-1	-	-	-	-	-	A355.0 C355.0	335
ZAlSi8Cu1Mg	ZL106	-	-	A□ 32	-	-	AlSi8Cu3 (3.2161)	LM27	-	328.0	327
ZAlSi7Cu4	ZI107	Al-Si6Cu4	AC2B	AK5M A□ 7-4	ENAC- 45000	A-S5UZ	AlSi6Cu4 (3.2151)	LM21	7369/4	319.0	326
ZAlSi12Cu2Mg1	ZL108	-	-	-	-	-	-	~LM2	6250	B332.0	328 334
ZAlSi12Cu1Mg1Ni1	ZL109	-	AC8A	A□ 30 ~AK12M2N	ENAC- 48000	A-S12UNZ	260 (VAR)	LM13	-	A332.0	321
ZAlSi9Cu2Mg	ZL111	-	-	-	ENAC- 46200	-	-	-	-	354.0	-
-	-	(AlSi5Cu3)	AC2A	AK5M2	ENAC- 45100	A-S5U3Z	-	-	7963	363.0	-
-	-	(AlSi7Cu3)	-	-	ENAC- 46300	A-S7U3Z	-	-	-	320.0	-
-	-	(AlSi9Cu3Zn)	-	-	ENAC- 46500	A-S9U3Z	(AlSi9Cu3)	-	4525	-	-
-	-	(AlSi10Cu)	-	-	ENAC- 46400	-	-	LM2	4520	383.0	-
-	-	(AlSi20CuMfNi)	-	AK21M2N2	-	-	-	LM29	-	393.0	-



Sheet 3 : The grades of Al-Si-Cu-(Mg , Ni) cast aluminum alloy in different countries

China GB		ISO	JIS	□ OCT	EN	NF	DIN	BS ~	UNI	America	
Brand	Code									AA	SAE
ZAlSi7Mg1A	ZL114A	-	-	-	ENAC- 42100	A-S7G06	-	LM25	-	A357.0 D357.0	-
ZAlSi8MgBe	ZL116	-	-	A□ 34 (BA □ 5)	-	-	-	-	-	B358	-
-	-	Al-Si5Mg	-	-	ENAC- 42000	-	AlSi5Mg (3.2341)	716B	3054	-	-
-	-	Al-Si10Mg	-	-	ENAC- 44000	A-S10G	AlSi10Mg (3.2385)	-	-	-	-
-	-	(Al-Si10MgCu)	-	-	ENAC- 46400	A-S10UG	AlSi10MgCu (3.2383)	-	-	-	-



Sheet 4 : The grades of Al-Cu-(Mn , Mg) cast aluminum alloy in different countries

China		GB	ISO	JIS	□ OCT	EN	NF	DIN	BS	UNI	America	
Brand	Code	AA									SAE	
ZAlCu5Mn	ZL201	Al-Cu4Ti	-	A□ 19	-	A-U5GT	AlCu4Ti (3.1841)	-	-	295.0 B295.0	380	
ZAlCu4	ZL203	-	AC1A	A□ 7	-	-	~AlCu4Ti	LM11 L154	3044	-	-	
ZAlCu5MnCdA	ZL204A	-	-	(B2243)	-	-	-	-	-	-	-	
ZAlCu5MnCdVA	ZI205A	-	-	(BA □ 10)	-	-	-	-	-	-	-	
ZAlRE5Cu3Si2	ZL207	-	-	(A ? PI)	-	-	-	-	-	-	-	
ZAlCu5Ni2CoZr	ZL208	-	-	-	-	AU5NKZr	-	RR350	-	203.0	-	
-	-	AlCu4Ni2Mg2	-	A□ 1	-	AU4NT	-	4L35	3045	A242.0	-	
-	-	Al-Cu4MgTi	AC1B	-	ENAG 21000	-	AlCu4TiMg (3.1371)	-	-	204.0	-	
-	-	(AlCu7Si4)	-	-	-	AU8S	-	-	-	-	-	
-	-	(AlCu10Mg)	-	-	-	-	-	LM12	3041	222.0	-	



Sheet5 : The grades of Al-Mg-(Si , Mn) cast aluminum alloy in different countries

China GB		ISO	JIS	□ OCT	EN	NF	DIN	BS	UNI	America	
Brand	Code									AA	SAE
ZAlMg10	ZL301	Al-Mg10	AC7B	A□ 18	ENAC- 51200	A-G10S	AlMg10 (3.3591)	-	3056	520.0	324
ZAlMg5Si1	ZL303	Al-Mg5Si1	-	A□ 3	ENAC- 51400	A-G6	AlMg5Si (3.3261)	~LM5	-	B514.0	320
-	-	Al-Mg3	ADC6	-	ENAC- 51000	A-G3T	AlMg3 (3.3541)	-	3059	-	-
-	-	Al-Mg3Si2	-	-	ENAC- 51000	-	AlMg3Si (3.3241)	-	-	515.0	-
-	-	(AlMg5)	-	-	ENAC- 51300	-	AlMg5 (3.3561)	-	3058	-	-
-	-	Al-Mg6	-	A□ 23	ENAC- 51300	A-G6	-	-	-	-	-



-	-	(Al-Mg7)	ADC5	-	-	-	-	-	5080	A335.0	-
-	-	(Al-Mg9)	-	-	ENAC- 51200	-	AlMg9 (3.3292)	-	-	518.0	-

Sheet 6 : The grades of Al-Zn-Mg and Al-Sn-(Cu , Ni) cast aluminum alloy in different countries

China GB		ISO	JIS	□ OCT	EN	NF	DIN	BS	UNI	America	
Brand	Code									AA	SAE
ZAlZn10Si7	ZL401	-	-	A□ 11	-	-	-	-	-	-	-
ZAlZn6Mg	ZL402	Al-Zn5Mg	-	A□ 24	ENAC- 71000	A-Z5G	-	LM31	-	A712.0 D712.0	310
-	-	(Al-Sn6CuNi)	-	-	-	-	AlSn6CuNi	-	-	850.0	-



Sheet 7 : The grades of Al-Zn-Mg and Al-Sn-(Cu , Ni) cast aluminum alloy in different countries

China GB		ISO	JIS	OCT	EN	NF	DIN	BS	UNI	America	
Brand	Code									AA	SAE
YZAlSi12	YL102	Al-Si12Fe	ADC1	A 2	ENAC- 47100	A-S13	AlSi12 (3.2582)	LM6-M LM20-M	5079	A413.0	305
YZAlSi10Mg	YL104	-	ADC3	A 4 A 9	ENAC- 43400	A-S 9G A-S10G	AlSi10Mg (3.2382)	-	-	360.0 A360.0	309
YZ AlSi9Cu4	YL112	(Al-Si8Cu3Fe)	ADC10	AK8M3	ENAC- 46000	A-S 9U3	AlSi8Cu3	LM24	3610	A380.0	-
YZAlMg5Si1	YL302	-	ADC6	A 13	-	A- G3T	AlMg5Si	LM5-M	-	-	320

Annotation : 1. The parenthesis only indicates the type,not the standard brand.

2. The German brand name begins with the prefix“ G”or“ GK_” (Omitted from the table) : The material number of German is in brackets.

Grade and chemical composition of die cast aluminum alloy. (GB/T15115 □ 1994)

Brand	Code	Main chemical composition(Mass fraction),%						
		Si	Cu	Mn	Mg	Fe	Zn	Al



YZAlSi12	YL102	10.0 ~ 13.0	□ 0.6	□ 0.6	□ 0.05	□ 1.2	□ 0.3	余量
YZAlSi10Mg	YL104	8.0 ~ 10.5	□ 0.3	0.2 ~ 0.5	0.17 ~ 0.30	□ 1.0	□ 0.3	余量
YZAlSi12Cu2	YL108	11.0 ~ 13.0	1.0 ~ 2.0	0.3 ~ 0.9	0.4 ~ 1.0	□ 1.0	□ 1.0	余量
YZAlSi9Cu4	YL112	7.5 ~ 9.5	3.0 ~ 4.0	□ 0.5	□ 0.3	□ 1.2	□ 1.2	余量
YZAlSi11Cu3	YL113	9.6 ~ 12.0	1.5 ~ 3.5	□ 0.5	□ 0.3	□ 1.2	□ 1.0	余量
YZAlSi17Cu5Mg	YL117	16.0 ~ 18.0	4.0 ~ 5.0	□ 0.5	0.45 ~ 0.65	□ 1.2	□ 1.2	余量
YZAlMg5Si1	YL302	0.8 ~ 1.3	□ 0.1	0.1 ~ 0.4	4.5 ~ 5.5	□ 1.2	□ 0.2	余量