



## Chemical Composition of Aluminium Alloy ( Mass % )

Indian & UK Standered												
Alloy (IS317:1959 / BS 1490:1970)	Cu	Si	Mg	Zn	Fe	Mn	Cr	Ni	Sn	Pb	Ti	Al
A0 / LM0	0.03	0.3	0.03	0.07	0.4	0.03		0.03		0.03		Remanent
A1 / LM1	6.0-8.0	2.0-4.0	0.15	2.0-4.0	1	0.6		0.5		0.3	0.2	Remanent
A2 / LM2	0.70-2.50	9.0-11.50	0.3	2	1	0.5		0.5		0.3	0.2	Remanent
A3 / LM3	2.5-4.5	1.3	0.1	9.0-13.0	1	0.5		0.5		0.3	0.2	Remanent
A4 / LM4	2.0-4.0	4.0-6.0	0.15	0.5	0.8	0.2-0.6		0.3	0.1	0.1	0.2	Remanent
A5 / LM5	0.1	0.3	3.0-6.0	0.1	0.6	0.3-0.7		0.1		0.05	0.05	Remanent
A6 / LM6	0.1	10.0-13.0	0.1	0.1	0.6	0.5		0.1	0.05	0.1	0.1	Remanent
A7 / LM7	1.0-2.5	1.5-3.5	0.05-0.2	0.1	0.3-1.4	0.1		0.5-1.7		0.05	0.05	Remanent
A8 / LM8	0.1	3.5-6.0	0.3-0.8	0.1	0.6	0.5		0.1		0.1	0.05	Remanent
A9 / LM9	0.1	10.0-13.0	0.20-0.60	0.1	0.6	0.3-0.7		0.1		0.1	0.2	Remanent
A10 / LM10	0.1	0.25	9.5-11.0	0.1	0.35	0.1		0.1	0.05	0.05	0.2	Remanent
A11 / LM11	4.0-5.0	0.25	0.1	0.1	0.25	0.1		0.1		0.05	0.05	Remanent
A12 / LM12	9.00- 11.00	2.5	0.2-0.4	0.8	1	0.6		0.5		0.1	0.2	Remanent
A13 / LM13	0.70-1.50	10.0-13.0	0.8-1.50	0.5	1	0.5		1.5	0.1	0.1	0.2	Remanent
A14 / LM14	3.5-4.5	0.6	1.2-1.7	0.1	0.6	0.6		1.8-2.3		0.05	0.05	Remanent
A15 / LM15	0.3-3.0	0.6-2.0	0.5-1.7	0.1	0.8-1.4	0.1		0.5-2.0		0.05	0.05	Remanent
A16 / LM16	1.0-1.5	4.5-5.5	0.4-0.6	0.1	0.6	0.5		0.25		0.1	0.2	Remanent
A18 / LM18	0.1	4.5-6.0	0.1	0.1	0.6	0.5		0.1		0.1	0.2	Remanent
LM20	0.4	10.0-13.0	0.2	0.2	1	0.5		0.1		0.1	0.2	Remanent
LM21	3.0-5.0	5.0-7.0	0.10-0.30	2	1	0.2-0.6		0.3		0.2	0.2	Remanent
A22 / LM22	2.8-3.8	4.0-6.0	0.05	0.15	0.6	0.2-0.6		0.15		0.1	0.2	Remanent
LM23	0.8-2.0	1.5-2.8	0.05-0.2	0.1	0.8-1.4	0.1		0.8-1.7		0.05	0.05	Remanent
A24 / LM24	3.0-4.0	7.5-9.5	0.3	3	1.3	0.5		0.1	0.2	0.3	0.2	Remanent
A25 / LM25	0.1	6.5-7.5	0.2-0.45	0.1	0.5	0.3		1		0.1	0.2	Remanent
A26 / LM26	2.0-4.0	8.5-10.5	0.5-1.5	1	1.2	0.5		0.3	0.1	0.2	0.2	Remanent
A27 / LM27	1.5-2.5	6.0-8.0	0.3	1	0.8	0.2-0.60.6		U 80 ~ 1.50		0.2	0.2	Remanent
A28 / LM28	1.3-1.8	17.0-20.0	0.8-1.5	0.2	0.7	0.6				0.1	0.2	Remanent
A29 / LM29	0.8-1.3	22.0-25.0	0.8-1.3	0.2	0.7	0.6		0.80 ~1.30		0.1	0.2	Remanent
A30 / LM30	4.0-5.0	16.0-18.0	0.4-0.7	0.2	1.1	0.3		0.1		0.1	0.2	Remanent
ALSI-62	1.8-2.5	5.5-7.0	0.3-0.7		0.4	0.2-0.6					0.2	Remanent
ALSI-92	1.6-2.5	8.5-9.5	0.3-0.7		0.4	0.2-0.6		0.1				Remanent
ALSI-132	1.75-2.5	11.0-12.5	0.3	1	0.7-1.0	0.5		0.3		0.1	0.1	Remanent

Japnies Standered												
Alloy	Cu	Si	Mg	Zn	Fe	Mn	Cr	Ni	Sn	Pb	Ti	Al
ADC1	1.0 max.	11.0 to 13.0	0.3 max.	0.5 max.	1.3 max.	0.3 max.		0.5 max.	0.1 max.	0.20 max.	0.30 max.	Remanent
ADC3	0.6 max.	9.0 to 11.0	0.4 to 0.6	0.5 max.	1.3 max.	0.3 max.		0.5 max.	0.1 max.	0.15 max.	0.30 max.	Remanent
ADC5	0.2 max.	0.3 max.	4.0 to 8.5	0.1 max.	1.8 max.	0.3 max.		0.1 max.	0.1 max.	0.10 max.	0.20 max.	Remanent
ADC6	0.1 max.	1.0 max.	2.5 to 4.0	0.4 max.	0.8 max.	0.4 to 0.6		0.1 max.	0.1 max.	0.10 max.	0.20 max.	Remanent
ADC10	2.0 to 4.0	7.5 to 9.5	0.3 max.	1.0 max.	1.3 max.	0.5 max.		0.5 max.	0.2 max.	0.2 max.	0.30 max.	Remanent
ADC10Z	2.0 to 4.0	7.5 to 9.5	0.3 max.	3.0 max.	1.3 max.	0.5 max.		0.5 max.	0.2 max.	0.2 max.	0.30 max.	Remanent
ADC12	1.5 to 3.5	9.6 to 12.0	0.3 max.	1.0 max.	1.3 max.	0.5 max.		0.5 max.	0.2 max.	0.2 max.	0.30 max.	Remanent
ADC12Z	1.5 to 3.5	9.6 to 12.0	0.3 max.	3.0 max.	1.3 max.	0.5 max.		0.5 max.	0.2 max.	0.2 max.	0.30 max.	Remanent
ADC14	4.0 to 5.0	16.0 to 18.0	0.45 to 0.65	1.5 max.	1.3 max.	0.5 max.		0.3 max.	0.3 max.	0.2 max.	0.30 max.	Remanent
Al Si9	0.10 max.	8.0 to 11.0	0.10 max.	0.15 max.	0.65 max.	0.50 max.		0.05 max.	0.05 max.	0.05 max.	0.15 max.	Remanent
Al Si12(Fe)	0.10 max.	10.5 to 13.5	0.10 max.	0.15 max.	1.0 max.	0.55 max.					0.15 max.	Remanent
Al Si10Mg(Fe)	0.10 max.	9.0 to 11.0	0.20 to 0.50	0.15 max.	1.0 max.	0.55 max.		0.15 max.	0.05 max.	0.15 max.	0.20 max.	Remanent
Al Si8Cu3	2.0 to 3.5	7.5 to 9.5	0.05 to 0.55	1.2 max.	0.8 max.	0.15 to 0.65		0.35 max.	0.15 max.	0.25 max.	0.25 max.	Remanent
Al Si9Cu3(Fe)	2.0 to 4.0	8.0 to 11.0	0.05 to 0.55	1.2 max.	1.3 max.	0.55 max.	0.15 max.	0.55 max.	0.25 max.	0.35 max.	0.25 max.	Remanent
Al Si9Cu3(Fe)(Zn)	2.0 to 4.0	8.0 to 11.0	0.05 to 0.55	3.0 max.	1.3 max.	0.55 max.	0.15 max.	0.55 max.	0.25 max.	0.35 max.	0.25 max.	Remanent
Al Si11Cu2(Fe)	1.5 to 2.5	10.0 to 12.0	0.30 max.	1.7 max.	1.1 max.	0.55 max.	0.15 max.	0.45 max.	0.25 max.	0.25 max.	0.25 max.	Remanent
Al Si11Cu3(Fe)	1.5 to 3.5	9.6 to 12.0	0.35 max.	1.7 max.	1.3 max.	0.60 max.		0.45 max.	0.25 max.	0.25 max.	0.25 max.	Remanent
Al Si12Cu1(Fe)	0.7 to 1.2	10.5 to 13.5	0.35 max.	0.55 max.	1.3 max.	0.55 max.	0.10 max.	0.30 max.	0.10 max.	0.20 max.	0.20 max.	Remanent
Al Si17Cu4Mg	4.0 to 5.0	16.0 to 18.0	0.45 to 0.65	1.5 max.	1.3 max.	0.50 max.		0.3 max.	0.3 max.			Remanent
Al Mg9	0.10 max.	2.5 max.	8.0 to 10.5	0.25 max.	1.0 max.	0.55 max.		0.10 max.	0.10 max.	0.10 max.	0.20 max.	Remanent
AC4B	2.0 to 4.0	7.0 to 10.0	0.5 max.	1.0 max.	0.8 max.	0.50 max.	0.20 max.	0.35 max.	0.10 max.	0.20 max.	0.20 max.	Remanent
AC2B	2.0 to 4.0	5.0 to 7.0	0.5 max.	1.0 max.	0.8 max.	0.50 max.	0.20 max.	0.35 max.	0.10 max.	0.20 max.	0.20 max.	Remanent
AlSi10Mg	0.08 max.	9.0 to 11.0	0.25 to 0.45	0.10 max.	0.45 max.	0.45 max.		0.05 max.	0.05 max.	0.05 max.	0.15 max.	Remanent
Al Si9Cu1Mg	0.8 to 1.3	8.3 to 9.7	0.30 to 0.65	0.8 max.	0.7 max.	0.15 to 0.55		0.20 max.	0.10 max.	0.10 max.	0.10 to 0.18	Remanent