

Aluminum

Aluminum Alloy and its Approximate Equivalents								
UK / INDIA	ISO	EN AC-	FRANCE	GERMANY	ITALY UNI	USA AA / ASTM	USA SAE	JAPAN
LM 0	Al 99.5		A5		3950	150		
LM 2	Al-Si10Cu2Fe	46 100	A-S9U3-Y4		5076	384	383	ADC 12
LM 4	Al-Si5Cu3	45 200	A-S5U3	G-ALSi6Cu4 (225)	3052	319	326	AC 2A
LM 5	Al-Mg5Si1 AlMg6	51 300	AG6	G-ALMg5 (244)	3058	514	320	AC 7A
LM 6	Al-Si12 Al-Si12Fe	44 100	AS 13	G-ALSi12 (230)	4514	A413		AC 3A
LM 9	Al-Si10Mg	43 100	A-S10G	G-ALSi10Mg (233)	3049	A360	309	AC 4A
LM 12	Al-Cu10Si2Mg		A-U10G		3041	222	34	
LM 13	Al-Si12Cu Al-Si12CuFe	48 000	A-S12UN		3050	336	321	AC 8A
LM 16	Al-Si5Cu1Mg	45 300	A-S4UG		3600	355	322	AC 4D
LM 20	Al-Si12Cu Al-Si12CuFe	47 000	A-S12-Y4	G-ALSi12(Cu) (231)	5079	A413	305	
LM 21	Al-Si6Cu4	45 000	A-S5U2	G-ALSi6Cu4 (225)	7369/4	308	326	AC 2A
LM 22	Al-Si5Cu3	45 400	A-S5U	G-ALSi6Cu4 (225)	3052	319	326	AC 2A
LM 24	Al-Si8Cu3Fe	46 500	A-S9U3A-Y4	G-ALSi8Cu3 (226)	5075 3601	A380	306	AC 4B ADC10
LM 25	Al-Si7Mg	42 000	A-S7G	G-ALSi7Mg	3599	A356	323	AC 4C
LM 26	Al-Si9Cu3Mg-		A-S7U3G		3050	332	332	
LM 27	Al-Si7Cu2Mn0.5	46 600			7369			AC 2B
LM 28	Al-Si19CuMgNi				6251			
LM 29	Al-Si23CuMgNi				6251			
LM 30	Al-Si17Cu4Mg					390		
LM 31	Al-Zn5	71 000	A-Z5G		3602	712	310	

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Chemical Composition of Alloys (As per BS 1490:1988 Std.)												
UK / INDIA	Cu	Mg	Si	Fe	Mn	Ni	Zn	Pb	Sn	Ti	Additional Elements	Others
LM 0	0.03	0.03	0.3	0.4	0.03	0.03	0.07	0.03	0.03		Al 99.50 min	
LM 2	0.7 - 2.5	0.3	9.0 - 11.5	1	0.5	0.5	2	0.3	0.2	0.2		0.5
LM 4	2.0 - 4.0	0.2	4.0 - 6.0	0.8	0.2 - 0.6	0.3	0.5	0.1	0.1	0.2		0.2
LM 5	0.1	3.0 - 6.0	0.3	0.6	0.3 - 0.7	0.1	0.1	0.05	0.05	0.2		0.2
LM 6	0.1	0.1	10.0 - 13.0	0.6	0.5	0.1	0.1	0.1	0.05	0.2		0.2
LM 9	0.2	0.2 - 0.6	10.0 - 13.0	0.6	0.3 - 0.7	0.1	0.1	0.1	0.05	0.2		
LM 12	9.0 - 11.0	0.2 - 0.4	2.5	1	0.6	0.5	0.8	0.1	0.1	0.2		0.2
LM 13	0.7 - 1.5	0.8 - 1.5	10.5 - 13.0	1	0.5	1.5	0.5	0.1	0.1	0.2		
LM 16	1.0 - 1.5	0.4 - 0.6	4.5 - 5.5	0.6	0.5	0.25	0.1	0.1	0.05	0.2		
LM 20	0.4	0.2	10.0 - 13.0	1	0.5	0.1	0.2	0.1	0.1	0.2		
LM 21	3.0 - 5.0	0.1 - 0.3	5.0 - 7.0	1	0.2 - 0.6	0.3	2	0.2	0.1	0.2		
LM 22	2.8 - 3.8	0.05	4.0 - 6.0	0.6	0.2 - 0.6	0.15	0.15	0.1	0.05	0.2		
LM 24	3.0 - 4.0	0.3	7.5 - 9.5	1.3	0.5	0.5	3	0.3	0.2	0.2		
LM 25	0.2	0.2 - 0.6	6.5 - 7.5	0.5	0.3	0.1	0.1	0.1	0.05	0.2		
LM 26	2.0 - 4.0	0.5 - 1.5	8.5 - 10.5	1.2	0.5	1	1	0.2	0.1	0.2		
LM 27	1.5 - 2.5	0.35	6.0 - 8.0	0.8	0.2 - 0.6	0.3	1	0.2	0.1	0.2		
LM 28	1.3 - 1.8	0.8 - 1.5	17.0 - 20.0	0.7	0.6	0.8 - 1.5	0.2	0.1	0.1	0.2		
LM 29	0.8 - 1.3	0.8 - 1.3	22.0 - 25.0	0.7	0.6	0.8 - 1.3	0.2	0.1	0.1	0.2		
LM 30	4.0 - 5.0	0.4 - 0.7	16.0 - 18.0	1.1	0.3	0.1	0.2	0.1	0.1	0.2		
LM 31	0.1	0.5 - 0.75	0.25	0.5	0.1	0.1	4.8 - 5.7	0.05	0.05	0.2		