

# Global Aluminum Alloy Conversion Chart

## BS 1490 - ALUMINUM Alloys and Approximate Equivalents

UK	ISO	EN (Provisional)	France	Germany	Italy UNI	USA AA / ASTM	USA SAE	Japan	End Uses
LM0	AL 99.5	-	A5	-	3950	150	-	-	Electrical, food, chemical plant
LM2	AL-Si10Cu2Fe	46100	A-S9U3-Y4	-	5076	384	383	ADC12	Pressure Diecasting
LM4	Al-Si5Cu3	4500	A-S5Ue	G-ALSi6Cu4 (225)	3052	319	326	AC2A	Sand gravity diecast manifolds, gear boxes, etc.
LM5	AL-Mg5Si1	51300	AG6	-	3058	514	320	AC7A	Sand, gravity; corrosion resistant, for marine use, Food plant, chemical plant
LM6	AL-Mg6	44100	AS13	G-ALSi12 (230)	4514	A413	-	AC3A	Sand, gravity; thin sections, manifolds, etc
	Al-Si12								
	AL-Si12Fe								
LM9	Al-Si10Mg	43100	A-S10G	G-ALSi10Mg (233)	3049	A360	309	AC4A	Low pressure, etc; motor housings, cover plates, etc. High strength when treated
LM12	Al-Cu10Si2Mg		A-U10G	-	3041	222	34	-	Gravity, sand cast; machines well, hydraulic equipment
LM13	Al-Si12Cu	48000	A-S12UN	-	3050	336	321	AC8A	Sand, Chili; used for pistons
	Al-Si12CuFe			-					
LM16	Al-Si5Cu1Mg	45300	A-S4UG	-	3600	355	322	AC4D	Sand, chill; cylinder heads valve bodies, good pressure tightness
LM20	Al-Si12Cu	47000	A-S12-Y4	G-ALSi12 (Cu)(231)	5079	A413	305	-	Pressure diecasting; corrosion resistant, marine castings, water pumps, meter cases
	Al-Si12CuFe								
LM21	Al-Si6Cu4	45000	A-S5U2	G-ALSi6Cu4(225)	7369/4	308	326	AC2A	Sand, gravity; similar to LM4, crankcases, gear boxes, etc.
LM22	Al-Si5Cu3	45400	A-S5U	G-ALSi6Cu4 (225)	3052	319	326	AC2A	Chill casting; solution treated, good shock resistance, automotive heavy duty parts
LM24	Al-Si8Cu3Fe	46500	A-S9U3A-Y4	G-ALSi8Cu3(226)	5075 / 3601	A380	306	AC4B / ADC10	Pressure diecasting; engineering diecastings
LM25	Al-Si7Mg	42000	A-S7G	G-ALSi7Mg	3599	A356	323	AC4C	Sand chill; general purpose high strength alloy with good castability; wheels, cylinder blocks, heads
LM26	Al-Si9Cu3Mg	-	A-S7U3G	-	3050	332	332	-	Chill; used for pistons
LM27	Al-Si7Cu3Mn0.5	46600	-	-	7369	-	-	AC2B	Sand, chill; versatile alloy, good castability; general engineering parts
LM28	Al-Si19CuMgNi	-	-	-	6251	-	-	-	Chill; high performance pistons
LM29	Al-Si23CuMgNi	-	-	-	6251	-	-	-	Chill; high performance pistons
LM30	Al-Si17Cu4Mg	-	-	-	-	390	-	-	Pressure diecast; unlined cylinder blocks
LM31	Al-Zn5Mg	71000	A-Z5G	-	3602	712	310	-	Sand; large castings, good shock resistance, good strength at elevated temp.