



ALLIANCE MEMORY MDS REPORT

Part Number:			AS4C256M16D3LD & AS4C256M16D3D							
Part Weight(mg):			166.52							
No.	Part Name	Component wt (mg)	Material Content (Element)	CAS Number	Homogeneous material wt (%)	Element wt (mg)	wt % of Total unit	PPM		
1	Substrate	35.937	Thermosetting resin (including filler)	Trade Secret	27.13%	9.750	5.85%	271300		
			Glass cloth	65997-17-3	27.13%	9.750	5.85%	271300		
			Barium Sulfate	7727-43-7	1.35%	0.485	0.29%	13500.0		
			3-Methoxy-3-methylbutylacetate	103429-90-9	0.89%	0.319	0.19%	8900.0		
			Dipropylene Glycol Monomethyl Ether	34590-94-8	0.44%	0.159	0.10%	4400.0		
			Talc containing no asbestiform fibers	14807-96-6	0.22%	0.081	0.05%	2200.0		
			Morpholine derivative	Trade Secret	0.22%	0.081	0.05%	2200.0		
			Solvent naphtha(petroleum), Heavy arom	Trade Secret	0.22%	0.081	0.05%	2200.0		
			2,4,6-Triamino-1,3,5-Triazine	Trade Secret	0.22%	0.081	0.05%	2200.0		
			Silicon dioxide	Trade Secret	0.05%	0.017	0.01%	500		
			Diethylene Glycol Monoethyl Ether Acetate	Trade Secret	0.05%	0.017	0.01%	500		
			Naphthalene	91-20-3	0.05%	0.017	0.01%	500		
			Trimethylbenzene	Trade Secret	0.05%	0.017	0.01%	500		
			Epoxy Resin (MW≤700)	85954-11-6	2.36%	0.848	0.51%	23600		
			Barium Sulfate	7727-43-7	1.42%	0.509	0.31%	14200		
			Dipropylene Glycol Monomethyl Ether	34590-94-8	0.94%	0.339	0.20%	9400		
			Dipentaerythritol hexaacrylate	Trade Secret	0.47%	0.170	0.10%	4700		
			Dipentaerythritol pentaacrylate	Trade Secret	0.24%	0.085	0.05%	2400		
			3-Methoxy-3-methylbutylacetate	103429-90-9	0.24%	0.085	0.05%	2400		
			Copper	7440-50-8	31.63%	11.367	6.83%	316300		
Nickel	7440-02-0	4.09%	1.470	0.88%	40900					
Gold	7440-57-5	0.59%	0.209	0.13%	5900					
2	Mold compound	67.85	Epoxy resin 1	Trade Secret	4.00%	2.714	1.63%	40000		
			Epoxy resin 2	Trade Secret	4.00%	2.714	1.63%	40000		
			Hardener	Trade Secret	5.00%	3.393	2.04%	50000		
			Metal hydroxide	Trade Secret	15.00%	10.178	6.11%	150000		
			Carbon black	1333-86-4	0.50%	0.339	0.20%	5000		
			Amorphous silica 1	60676-86-0	60.00%	40.710	24.45%	600000		
			Amorphous silica 2	7631-86-9	11.50%	7.803	4.69%	115000		
3	Epoxy	2.504	2-(2-Ethoxyethoxy)ethyl acetate	112-15-2	36.50%	0.914	0.55%	365000		
			Butadiene, acrylonitrile polymer, carboxy-terminated, polymer with bisphenol A and epichlorohydrin	68610-41-3	28.00%	0.701	0.42%	280000		
			Isodecyl alcohol, ethoxylated	61827-42-7	10.00%	0.250	0.15%	100000		
			Silica Filler	112926-00-8	25.00%	0.626	0.38%	250000		
4	Solder ball	33.878	Tin	7440-31-5	96.50%	32.692	19.63%	965000		
			Silver	7440-22-4	3.00%	1.016	0.61%	30000		
			Copper	7440-50-8	0.50%	0.169	0.10%	5000		
5	Gold wire	0.301	Gold	7440-57-5	99.99%	0.301	0.18%	999900		
			The others	Trade Secret	0.01%	0.000	0.00%	100		
6	Die	26.05	Silicon	7440-21-3	100.00%	26.050	15.64%	1000000		
						166.52	600.00%	166.52	100.00%	6000000