

Construction element	Material group	Materials	CAS (where available)	Average mass (%)	Sum (%)	Mass (mg)	ppm
Chip	Silicon	Silicon (Si)	7440-21-3	1.29	1.29	2.06	12934
Leadframe	Copper Alloy	Copper (Cu)	7440-50-8	53.86	55.51	85.90	538560
		Iron (Fe)	7439-89-6	1.33		2.12	13277
		Zinc (Zn)	7440-66-6	0.07		0.12	721
		Phosphorus (P)	7723-14-0	0.04		0.07	445
		Lead (Pb)	7439-92-1	0.02		0.03	166
		Silver (Ag)	7440-22-4	0.20		0.31	1973
Die Attach Solder	Pb:Sn:Ag=95,5:2:2,5	Lead (Pb)	7439-92-1	0.40	0.42	0.64	4018
		Tin (Sn)	7440-31-5	0.01		0.01	84
		Silver (Ag)	7440-22-4	0.01		0.02	105
Wires	Gold	Gold (Au)	7440-57-5	0.11	0.11	0.17	1070
Encapsulation	Epoxy	Fused Silica	60676-86-0	30.62	40.26	48.84	306196
		Epoxy, Cresol Novolac	29690-82-2	4.24		6.76	42391
		Metal Hydroxide	Not disclosed	3.13		4.99	31280
		Phenol Novolac	9003-35-4	2.14		3.42	21417
		Carbon Black	1333-86-4	0.13		0.21	1288
Lead finish	Matte Tin	Tin (Sn)	7440-31-5	2.41	2.41	3.84	24075
Sum in Total:					100.00	159.5	1000000

Fluctuation margin ±10%

This environmental data is based on information provided by our suppliers; we believe it to be correct but do not routinely validate it by measurement.

The information is for guidance only, and Zetex does not guarantee its absolute accuracy or completeness.

The active part of each device is a silicon chip doped at atomic levels (some tens of ppb) with Phosphorus, Boron and Arsenic. The back of the die is raw or metallized with thin layers of Titanium, Nickel, Silver or Gold in order to enhance the die bonding to the header or leadframe. These and other substances are not reported as being present in Zetex products where their concentration is less than 20ppm, as they are not considered detectable by normal analytical methods.

The Company reserves the right to alter without notice the specification, design, price or conditions of supply of any product or service.

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