

Construction element	Material Group	Materials	CAS (where available)	Average mass (%)	Sum (%)	Mass (mg)	ppm
Die	Silicon	Silicon	7440-21-3	5.34	5.34	0.620	68132
Leadframe	Copper alloy	Copper	7440-50-8	35.64	36.37	4.135	454354
		Iron	7439-89-6	0.04		0.004	455
		Phosphorus	7723-14-0	0.01		0.001	136
		Silver	7440-22-4	0.69		0.080	8791
Wires	Gold	Gold wire	7440-57-5	0.17	0.17	0.020	2198
Die Attach	Silver loaded epoxy	Silver	7440-22-4	0.40	0.53	0.046	5076
		Resin	9003-36-5	0.08		0.009	1022
		1,4-bis(2,3-epoxypropoxy) butane	2425-79-8	0.04		0.005	511
		Amine	-	0.02		0.002	204
Encapsulation	Filled epoxy	Silica	60676-86-0	39.93	56.72	4.632	509046
		Phenol Novolac	9003-35-4	8.22		0.954	104846
		Epoxy Cresol Novolac	29690-82-2	2.89		0.336	36877
		Antimony trioxide	1309-64-4	2.95		0.342	37600
		Not disclosed	-	2.55		0.296	32538
		Carbon Black	1333-86-4	0.17		0.020	2198
Leadfinish	Matte Tin	Tin	7440-31-5	0.86	0.86	0.100	10989
Sum in Total:					100.0	11.602	

Fluctuation margin $\pm 10\%$

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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