

Construction element	Materials	CAS if applicable	Average mass (%)	Sum (%)	Mass (mg)	ppm
Chip	Silicon	7440-21-3	0.43	0.43	0.22	4280
Leadframe	Copper	7440-50-8	49.16	49.46	25.27	491634
	Iron	7439-89-6	0.06		0.03	584
	Phosphorus	7723-14-0	0.02		0.01	195
	Silver	7440-22-4	0.14		0.07	1362
	Nickel	7440-02-0	0.08		0.04	778
Wires	Gold wire	7440-57-5	0.06	0.06	0.03	584
Encapsulation	Phenol Novolac	9003-35-4	3.48	48.70	1.79	34769
	Epoxy Cresol Novolac	29690-82-2	6.40		3.29	63987
	Silica, fused	60676-86-0	35.62		18.31	356215
	Antimony oxide	1309-64-4	1.53		0.79	15291
	Carbon Black	1333-86-4	0.14		0.07	1412
	Undisclosed	-	1.53		0.79	15291
Leadfinish	Tin	7440-31-5	1.36	1.36	0.70	13619
Sum in Total:				100.00	51.40	

Fluctuation margin	+/-10%
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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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