



## Material Content Data Sheet



<b>Sales Product Name</b>		SPW47N60C3		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001332928						
<b>Package</b>		PG-TO247-3-44		<b>Weight*</b>		6058.49 mg		
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	30.768	0.51	0.51	5079	5079
leadframe	non noble metal	iron	7439-89-6	0.530	0.01		87	
	inorganic material	phosphorus	7723-14-0	0.159	0.00		26	
	non noble metal	copper	7440-50-8	529.068	8.73	8.74	87327	87440
wire	non noble metal	aluminium	7429-90-5	9.385	0.15	0.15	1549	1549
encapsulation	organic material	carbon black	1333-86-4	19.741	0.33		3258	
	plastics	epoxy resin	-	375.070	6.19		61908	
	inorganic material	silicondioxide	60676-86-0	1579.242	26.07	32.59	260666	325832
leadfinish	non noble metal	tin	7440-31-5	31.874	0.53	0.53	5261	5261
plating	non noble metal	nickel	7440-02-0	29.065	0.48	0.48	4797	4797
solder	non noble metal	antimony	7440-36-0	1.111	0.02		183	
	noble metal	silver	7440-22-4	2.778	0.05		458	
	non noble metal	tin	7440-31-5	7.222	0.12	0.19	1192	1833
heatspreader	non noble metal	iron	7439-89-6	3.442	0.06		568	
	inorganic material	phosphorus	7723-14-0	1.033	0.02		170	
	non noble metal	copper	7440-50-8	3438.006	56.73	56.81	567471	568209
*deviation	< 10%					Sum in total:	100.00	1000000

### Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption

Company	Infineon Technologies AG
Address	81726 München
Internet	www.infineon.com