



## Material Content Data Sheet

<b>Umbrella Spec</b>	PrimePACK™ 2 +IGBT5 .XT with TIM						
<b>Date</b>	2017-03-01				<b>RoHS compliant</b>	YES	
<b>Revision</b>	2.0						
<b>Construction element</b>	<b>Material group</b>	<b>Materials</b>	<b>CAS-Nr. if applicable</b>	<b>Average mass [%]*</b>	<b>Sum [%]</b>	<b>Traces</b>	<b>Comment</b>
chip	inorganic material	silicon	7440-21-3	0,05	0,05		
Base plate and substrate including metallisation	non noble metal	copper	7440-50-8	49,9	54,0		
	inorganic material	aluminium oxide	1344-28-1	1,1			
	non noble metal	tin	7440-31-5	2,2			
	non noble metal	nickel	7440-02-0	0,3			
	non noble metal	antimony	7440-36-0	0,2			
	inorganic material	zirkonia oxide	1314-23-4	0,2			
	noble metal	silver	7440-22-4	0,1			
	inorganic material	phosphorus				X	
wire	non noble metal	copper	7440-50-8	0,5	0,5		
encapsulation	polymers	silicone gel		10,4	10,4		
housing	polymers	Polyamid (PA)		11,1	18,2		classifications: DIN EN 45545: R24: HL3 R23: HL1 R22:-
	inorganic material	antimonypentoxide	1314-60-9	0,5			
	plastics	brominated resin		0,2			
	plastics	chlorinated resin				X	
	inorganic material	silicondioxide / glasfiber		6,4			
lead, finish and plating	non noble metal	copper	7440-50-8	13,0	16,9		
	ferrous metal	steel	11121-90-7	3,9			
	non noble metal	zinc	7440-66-6			X	
	non noble metal	nickel	7440-02-0			X	
TIM	non noble metal	aluminium	7429-90-5			X	
	non noble metal	zinc oxid	1314-13-2			X	
	inorganic material	silicon	7440-21-3			X	
	polymers	hydrocarbon co-oligomer				X	
	polymers	hydrocarbon waxes				X	
	non noble metal	titanium	61417-49-0			X	
smd (including thermistors, resistors and shunts)	inorganic material	lead oxide	1317-36-8	0,006	0,006		RoHS compliant; according to exception 7c.1
	non noble metal	copper	7440-50-8			X	
	non noble metal	tin	7440-31-5			X	
	noble metal	silver	7440-22-4			X	
deviation	<25%			Sum in total		100,0	

Weight range of product family ** / gram	<b>844</b>
Fluctuation margin	<25%

\*) related to component weight

\*\*) Weight of particular product, see technical product information

### Important Remarks:

- 1) This document provides full declaration of all materials present in Infineon products above a threshold of 0,1 % b.w. (1000 ppm).
- 2) Trace concentrations (i.e. < 0,1 % b.w) present in products are marked with an "X" as far as they represent substances-of-concern.  
A list of substances-of-concern can be found at <http://www.infineon.com/soc>.
- 3) All statements are based on our present knowledge and are subject to change at any time due to technical requirements and development.
- 4) Infineon products are not classified as "hazardous substances" according to the definition in the EU Directive 67/548/EC and do therefore not require Material Safety Data Sheets.

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