



## Material Content Data Sheet

<b>Umbrella Spec</b>		IH4B-IHM B 130 Cu TIM					
<b>Date</b>		2017-03-01		<b>RoHS compliant</b>		yes	
<b>Revision</b>		9.0		<b>valid from: date code</b>			
<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	0,5	0,5		
Base plate and substrate including metallisation	non noble metal	copper	7440-50-8	61,7	66,6		
	inorganic material	aluminium oxide	1344-28-1	1,0			
	non noble metal	tin	7440-31-5	2,9			
	non noble metal	lead	7439-92-1	0,5			RoHS compliant; according to exception 7a.
	non noble metal	nickel	7440-02-0	0,2			
	noble metal	silver	7440-22-4	0,1			
	inorganic material	zirconium dioxide	1314-23-4	0,2			
wire	inorganic material	phosphorus				X	
	non noble metal	aluminium	7429-90-5			X	
encapsulation	polymers	silicone gel		11,4	11,4		
housing	polymers	Polyamid (PA)		8,0	11,6		Containing no halogenated compounds or diantimony trioxide  classifications: DIN EN 45545: R24: HL3 R23: HL3 R22: HL3
	inorganic material	phosphorus		0,1		X	
	inorganic material	silicondioxide / glasfiber		3,5			
lead, finish and plating	non noble metal	copper	7440-50-8	7,1	9,8		
	ferrous metal	steel	11121-90-7	2,7			
TIM	non noble metal	zinc	7440-66-6			X	
	non noble metal	nickel	7440-02-0			X	
	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	
deviation	non noble metal	titanium	61417-49-0			X	
				<b>Sum in total</b>		100,0	

Weight range of product family ** / gram	<b>1276</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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