



## Material Content Data Sheet

Umbrella Spec		Smart1					
Date		2011-11-29		RoHS compliant		Yes	
Revision		3.0					
Construction element	Material group	Materials	CAS-Nr. if applicable	Average mass [%]*	Sum [%]	Traces	Comment
chip	inorganic material	silicon	7440-21-3	1,0	1,0		
substrate including metallisation	non noble metal	copper	7440-50-8	22,8	32,8		
	inorganic material	aluminium oxid	1344-28-1	8,0			
	non noble metal	tin	7440-31-5	1,0			
	noble metal	silver	7440-22-4	1,0			
	non noble metal	magnesium	7439-95-4				X
	non noble metal	cobalt	7440-48-4				X
	non noble metal	nickel	7440-02-0				X
wire	non noble metal	aluminium	7429-90-5	1,0	1,0		
encapsulation	polymers	silicone gel		12,0	12,0		
housing	polymers	PBT		27,7	49,0		
	inorganic material	antimonytrioxide	1309-64-4	2,9			
	plastics	brominated resin		2,0			
	plastics	chlorinated resin		1,4			
	inorganic material	silicondioxide / glasfiber		15,0			
lead, finish and plating	non noble metal	tin	7440-31-5		4,2	X	
	non noble metal	copper	7440-50-8	4,2			
	non noble metal	zinc	7440-66-6				X
	non noble metal	nickel	7440-02-0				X
SMD (including thermistors, resistors and shunts)	inorganic material	lead oxide	1317-36-8	0,2			RoHS compliant
	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		

Weight range of product family	33,5
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.

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