

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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