



## Material Content Data Sheet

<b>Umbrella Spec</b>	IH12-IHM 190 6.5kV AI PI							
<b>Date</b>	2014-01-07		<b>RoHS compliant</b>		no			
<b>Revision</b>	5.0		<b>valid from: date code 2014-02-01</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	0,6	0,6			
Base plate and substrate including metallisation	non noble metal	aluminium	7429-90-5	8,8	42,9			
	inorganic material	silicon carbide	409-21-2	20,5				
	inorganic material	aluminium nitride		5,5				
	non noble metal	copper	7440-50-8	6,0				
	non noble metal	tin	7440-31-5	0,3				
	non noble metal	lead	7439-92-1	1,4				
	noble metal	silver	7440-22-4	0,4				
	non noble metal	nickel	7440-02-0				X	
	non noble metal	zinc	7440-66-6				X	
wire	non noble metal	aluminium	7429-90-5				X	
encapsulation	polymers	silicone gel		21,3	21,3			
housing	polymers	polyamid (PA)		5,8	15,2		Containing no halogenated compounds or diantimony trioxide  NF F16-101 fire&smoke classification: I3/F2 CEN/TS 45545: R25: HL3 R24: HL3 R23: HL3	
			inorganic material	magnesium hydroxide		7,9		
			inorganic material	silicondioxide / glasfiber		1,5		
lead, finish and plating	non noble metal	copper	7440-50-8	14,8	19,0			
	ferrous metal	steel	11121-90-7	4,2				
	non noble metal	zinc	7440-66-6				X	
	non noble metal	nickel	7440-02-0				X	
printed circuit board (PCB)	polymers	polyamidomide					X	
	polymers	epoxid resin (FR4)		0,7	1,0			
	non noble metal	copper	7440-50-8	0,3				
deviation	non noble metal	tin	7440-31-5				X	
	<25%			Sum in total	100,0			

Weight range of product	<b>1380 g</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.

Company	Infineon Technologies
Address	81726 München
Internet	<a href="http://www.infineon.com">www.infineon.com</a>