

Material Content Data Sheet

Umbrella Spec	IH7-IHM 190 Al PI		
Date	2017-03-01	**RoHS compliant**	no
Revision	7.0		

Construction element	*Material group*	*Materials*	*CAS-Nr. if applicable*	*Average mass [%]**	*Sum [%]*	*Traces*	*Comment*
chip	inorganic material	silicon	7440-21-3	0,6	0,6		
Base plate and substrate including metallisation	non noble metal	aluminium	7429-90-5	9,1	40,4		
	inorganic material	silicon carbide	409-21-2	20,8			
	inorganic material	aluminium nitride		5,6			
	non noble metal	copper	7440-50-8	3,1			
	non noble metal	tin	7440-31-5	0,3			
	non noble metal	lead	7439-92-1	1,4			
	noble metal	silver	7440-22-4	0,2			
	non noble metal	nickel	7440-02-0			X	
	non noble metal	zinc	7440-66-6			X	
	polymers	acrylic compounds				X	
wire	non noble metal	aluminium	7429-90-5			X	
encapsulation	polymers	silicone gel		14,3	23,5		
	polymers	epoxid resin		9,2			
housing	polymers	Polyamid (PA)		9,6	13,9		Containing no halogenated compounds or diantimony trioxide classifications: DIN EN 45545: R24: HL3 R23: HL3 R22: HL3
	inorganic material	phoshorus		0,2			
	inorganic material	silicondioxide / glasfiber		4,2			
lead, finish and plating	non noble metal	copper	7440-50-8	14,7	18,9		
	ferrous metal	steel	11121-90-7	4,2			
	non noble metal	zinc	7440-66-6			X	
	non noble metal	nickel	7440-02-0			X	
	polymers	polyamidomide				X	
printed circuit board (PCB) including metallisation and finish	polymers	epoxid resin (FR4)		1,9	2,7		
	non noble metal	copper	7440-50-8	0,8			
	non noble metal	tin	7440-31-5			X	
deviation	<25%			Sum in total	100,0		

Weight range of product family ** / gram	**1321**
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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