

Material Content Data Sheet

Umbrella Spec	Econo^{TM} 3B IGBT7 + TIM		
Date	2023-03-03	**RoHS compliant**	Yes
Revision	1.0		

Construction element	*Material group*	*Materials*	*CAS-Nr. if applicable*	*Average mass [%]**	*Sum [%]*	*Traces*	*Comment*
chip	inorganic material	silicon	7440-21-3	0,3	0,3		
base plate and substrate including metallisation	non noble metal	copper	7440-50-8	69,2	72,4		
	inorganic material	aluminium oxid	1344-28-1	1,9			
	non noble metal	tin	7440-31-5	1			
	noble metal	silver	7440-22-4	0,3			
	non noble metal	antimony	7440-36-0			X	
	non noble metal	nickel	7440-02-0			X	
	non noble metal	magnesium	7439-95-4			X	
	non noble metal	cobalt	7440-48-4			X	
wire	non noble metal	aluminium	7429-90-5			X	
encapsulation	polymers	silicone gel		11,1	11,1		
housing	polymers	PBT		7,7	13,5		
	inorganic material	antimonytrioxide	1309-64-4	0,8			
	plastics	brominated resin		0,6			
	plastics	chlorinated resin		0,4			
	inorganic material	silicondioxide / glasfiber		4,0			
lead, finish and plating	non noble metal	copper	7440-50-8	2,6	2,6		
	non noble metal	tin	7440-31-5			X	
	noble metal	silver	7440-22-4			X	
	non noble metal	nickel	7440-02-0			X	
TIM	non noble metal	aluminium	7429-90-5	0,1	0,1		
	non noble metal	zinc oxid	1314-13-2			X	
	polymers	silicon	7440-21-3			X	
	polymers	hydrocarbon co-oligomer				X	
	polymers	hydrocarbon waxes				X	
	non noble metal	titanium	61417-49-0			X	
smd (including thermistors, resistors and shunts)	inorganic material	lead oxide	1317-36-8	0,01	0,01		RoHS compliant; according to exception 7c.I
	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	100,0		

Weight range of product family **	**308 g**
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 AG
Address	81726 München
Internet	www.infineon.com