


# Material Content Data Sheet

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|---|---|---|---|
| **Umbrella Spec** | IH11-IHM 130 6.5kV 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 | 8,8 | 43,0 | | |
| | inorganic material | silicon carbide | 409-21-2 | 20,7 | | | |
| | 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 | |
| | polymers | acrylic compounds | | | | X | |
| wire | non noble metal | aluminium | 7429-90-5 | | | X | |
| encapsulation | polymers | silicone gel | | 21,1 | 21,1 | | |
| housing | polymers | Polyamid (PA) | | 5,9 | 15,4 | | Containing no halogenated compounds or diantimony trioxide<br><br>DIN EN 45545:<br>R24: HL3<br>R23: HL3<br>R22: HL3 |
| | inorganic material | magnesium hydroxide | | 8,0 | | | |
| | inorganic material | silicondioxide / glasfiber | | 1,5 | | | |
| 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) | polymers | epoxid resin (FR4) | | 0,7 | 1,0 | | |
| | non noble metal | copper | 7440-50-8 | 0,3 | | | |
| | non noble metal | tin | 7440-31-5 | | | X | |
| deviation | <25% | | | Sum in total | 100,0 | | |

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| Weight range of product family ** / gram | **940** |
| 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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