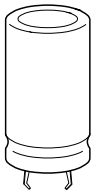
Aluminium Electrolytic Capacitor

Material Data Sheet

Product Class	Large size capacitors with snap in terminals
Date	2016.01.25
IMDS ID if available	
Version	09



Remark: This material datasheet is valid for the part numbers contained in the Data Book 2015. In case of special (B4****S****) or obsolete capacitors please contact our sales department

Product Part (IMDS: semi component)	**Material Class** (IMDS: Material)	**Material (Classification)** VDA 231	**Substance**	TMPS**) [wt%]	**CAS if applicable**	**typical mass of material [wt-%]**	**Traces see 1)**
Active Part	Light Metals	1B	Aluminium	100	7429-90-5	44	
	Acids, Bases, Salts	6F	Gamma-butyrolactone	57	96-48-0	25	
	Acids, Bases, Salts	6F	N-methyl-2-pyrrolidone	23	872-50-4		
	Acids, Bases, Salts	6F	Others*)	20	-		
	Thermoplastics	2A	Polypropylene	100	9003-07-0	0,1	
	Paper, Cardboard	5C	Cellulose	100	9004-34-6	11,9	
Encapsulation	Light Metals	1B	Aluminium	100	7429-90-5	11,0	
	Paper, Cardboard	5C	Cellulose	56	9004-34-6	2,6	
	Duromer	2D	Phenolic plastic	44	-		
	Elastomer	2B	EPDM rubber	41,5	25038-36-2	1,2	
	Inorganic, solid	4A	Silicon dioxide	13	7631-86-9		
	Inorganic, solid	4A	Kaolinite	28,5	1318-74-7		
	Lubricant	6B	Paraffin	10,5	8012-95-1		
	-	-	Others *)	6,5	-		
	Thermoplastics	2A	PTFE	100	9002-84-0	0,2	
	Thermoplastics	2A	Polyethylene terephthalate or without insulation	90	25038-59-9 -	3,0	
			Others *)	10	-		
Termination	Iron and Steel	1A	Iron	100	7439-89-6	1	
	Heavy Metals	1C	Copper	100	7440-50-8	<0,1	
	Heavy Metals	1C	Tin	100	7440-31-5	<0,1	
					Sum in total:	100	

sizes D x L [mm]	weight range [g]	sizes D x L [mm]	weight range [g]	sizes D x L [mm]	weight range [g]	sizes D x L [mm]	weight range [g]	part numbers
22 x 40	21	25 x 40	28	30 x 30	29	35 x 50	68	**B41605 / B41607**
25 x 30	20	25 x 50	35	30 x 50	50			

Not Part of a Product Class

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*) others: .(not declarable or prohibited substances acc. GADSL)

**) typical mass percentage of substance

Important remarks:

1) The declaration limit is 0.1% as defined by IEC 62474 (IEC PAS 61906). Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwise regulated.

2) This Material Data Sheet contains typical values of the respective products set forth herein. We expressly point out that all values and statements contained herein are based on our best present knowledge and cannot be regarded as binding statements or binding product specifications, unless otherwise explicitly agreed in writing. EPCOS AG AND ITS AFFILIATES HEREBY EXPRESSLY DISCLAIM ANY REPRESENTATION OR WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY, WITH REGARD TO THE STATEMENTS AND VALUES CONTAINED HEREIN, INCLUDING BUT NOT LIMITED TO ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PURPOSE.

The products set forth herein are "RoHS-compatible". RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

RoHS - Exemptions for the Product Class / Product according to Annex III: (☑ valid ☐ not valid **)**

☑ **no exemptions;**

☐ Exemption 6 (a): Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight;

☐ Exemption 6 (b): Lead as an alloying element in aluminium containing up to 0,4 % lead by weight;

☐ Exemption 6 (c): Copper alloy containing up to 4 % lead by weight;

☐ Exemption 7 (a): Lead in high melting temperature type solder (i.e. lead-based alloys containing 85 % by weight or more lead);

☐ Exemption 7 (c)-I: Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound;

☐ Exemption 7 (c)-II: Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher;

☐ Exemption 7 (c)-III: Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC;

☐ Exemption 15: Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages;

☐ Other Exemption than above .....

