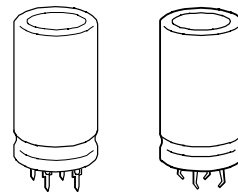


# Aluminium Electrolytic Capacitor

# Material Data Sheet

<b>Product Class</b>	Capacitors with 4-pin / 5-pin snap-in terminals and solder pins	Remark: This material datasheet is valid for the part numbers contained in the Data Book 2019. In case of special (B4****S****) or obsolete capacitors please contact our sales department  
<b>Date</b>	12.05.2022	
<b>IMDS ID if available</b>		
<b>Version</b>	11	

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)
<b>Active Part</b>	Light Metals	1B	Aluminium	100	7429-90-5	44	
	Acids, Bases, Salts	6F	Ethylene glycol	80	107-21-1	25	
	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	
<b>Encapsulation</b>	Light Metals	1B	Aluminium	100	7429-90-5	10	
	Paper, Cardboard	5C	Cellulose	56	9004-34-6	2,3	
	Duromer	2D	Phenolic plastic	44	-		
	Elastomer	2B	EPDM rubber	41,5	25038-36-2	1,1	
	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 or Polypropylene coating***)	100	9002-84-0 9003-07-0	0,2	
	Thermoplastics	2A	Polypropylene	100	9003-07-0	0,4	
	Thermoplastics	2A	Polyvinyl chloride or Polyethylene terephthalate or without insulation	90	9002-86-2 25038-59-9	3,0	
		others*)	10				
<b>Termination</b>	Iron and Steel	1A	Iron	100	7439-89-6	2	
	Heavy Metals	1C	Copper	100	7440-50-8	<0,1	
	Heavy Metals	1C	Tin	100	7440-31-5	<0,1	
<b>Sum in total:</b>						<b>100</b>	

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
30 x 35	29	40 x 40	71	45 x 40	90	50 x 65	190	B43510 / B43520
35 x 40	56	40 x 45	80	45 x 45	100	50 x 70	204	B43511 / B43521
35 x 45	59	40 x 50	89	45 x 50	113	50 x 75	220	B43512 / B43522
35 x 50	63	40 x 55	95	45 x 55	113	50 x 80	234	B43513 / B43523
35 x 55	75	40 x 60	107	45 x 60	136	50 x 95	262	B43514 / B43524
35 x 60	76	40 x 65	115	45 x 65	144	50 x 105	352	B43515 / B43525
35 x 65	80	40 x 70	125	45 x 70	158			B43516 / B43526
35 x 70	88	40 x 75	133	45 x 75	170			B43610 / B43612
35 x 75	93	40 x 80	143	45 x 80	181			B43640
35 x 80	101	40 x 85	151	45 x 85	202			B43991
35 x 85	110	40 x 90	161	45 x 90	204			B41991
35 x 100	126	40 x 95	169	45 x 95	214			B43306
		40 x 100	178	45 x 100	226			
		40 x 105	190	45 x 105	261			

<b>Not Part of a Product Class</b>		<b>Important remarks:</b>  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
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	Tel: +36 94 522 226	mailto: ivett.balint@tdk-electronics.tdk.com
*) others: (not declarable or prohibited substances acc. GADSL)		

\*\* ) typical mass percentage of substance  
 \*\*\* ) not all capacitor contains PTFE or PP coating on the cover disc

or binding product specifications, unless otherwise explicitly agreed in writing. TDK ELECTRONICS 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 8<sup>th</sup>, 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 aluminum 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 .....