

## TEST REPORT

Reference No. : FS2025060376-1E

Date : Jun. 23, 2025

Page No.: 1 of 36

Client : Diedrich Filmer GmbH

Address : Jeringhaver Gast 5 • D-26316 Varel, Germany

The following merchandise was (were) submitted and identified by the client as:

Name of Product : Heating Cushion

Test Model : 36.036

Model May Cover : /

Main Material: /

Supplier: /

Buyer: /

P.O.:

Manufacturer:

Reference No. :

Sample Received : Jun. 18, 2025

Test Period : Jun. 18, 2025 - Jun. 23, 2025

As requested by the client, According to RoHS Directive 2011/65/EU(RoHS 2.0) and its subsequent amendments Directive (EU) 2015/863. Split the sample and determine the Pb, Cd, Hg, Cr (VI), PBBs, PBDEs, DEHP, BBP, DBP&DIBP content of the parts.

Test Specification and Conclusion:

RoHS Directive 2011/65/EU(RoHS 2.0) and its subsequent amendments  
Directive (EU) 2015/863

PASS

Prepared By :

  
Jolin Li  
Testing Engineer

Reviewed By :

  
Carina Ma  
Report Supervisor

Issued By :



STQ Testing Services (Foshan) Co., Ltd. (A Member of V-Trust Group)

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### PRODUCT PHOTO



\*\*\*\*\* To be continued \*\*\*\*\*

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### TEST METHOD:

1. Sample prepared with reference to IEC 62321-2:2021 Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjunction and mechanical sample preparation
2. Sample Screening testing with reference to IEC 62321-3-1:2013 Determination of certain substances in electrotechnical products - Part 3-1: Screening - Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry.
3. Wet Chemical Test Method
  - a. Determination of Lead ,Cadmium by ICP-OES with reference to IEC 62321-5:2013
  - b. Determination of Mercury by ICP-OES with reference to IEC 62321-4:2013+A1:2017
  - c. Determination of Hexavalent Chromium by UV-Vis Method with reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017
  - d. Determination of PBBs and PBDEs by GC-MS with reference to IEC 62321-6:2015
  - e. Determination of Phthalates by GC-MS with reference to IEC 62321-8:2017

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## TEST RESULTS:

Part No.	Test Part Description	Note	Test Results <sup>(1)(2)</sup> (mg/kg)									
			Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	DEHP	BBP	DBP	DIBP
1	White fabric with white/gray coating label	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
2	Black fabric binding	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
3	Black elastic band	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
4	Black non-woven	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
5	Black elastic band	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
6	Black plastic shell	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.

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Part No.	Test Part Description	Note	Test Results <sup>(1)(2)</sup> (mg/kg)									
			Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	DEHP	BBP	DBP	DIBP
7	Black fabric backing	XRF	BL	BL	BL	BL	IN		---	---	---	---
		CHEM	---	---	---	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
8	Gray foam	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
9	White non-woven	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
10	White foam	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
11	Black plastic part	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
12	Silvery metal nut	XRF	BL	BL	BL	IN	---		---	---	---	---
		CHEM	---	---	---	Neg.	---	---	---	---	---	---
13	Silvery metal screw	XRF	BL	BL	BL	IN	---		---	---	---	---
		CHEM	---	---	---	Neg.	---	---	---	---	---	---

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Part No.	Test Part Description	Note	Test Results <sup>(1)(2)</sup> (mg/kg)									
			Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	DEHP	BBP	DBP	DIBP
14	Black plastic shell	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
15	Silvery metal cap	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
16	Transparent glass tube	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
17	Silvery metal spring	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
18	Silvery metal spring	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
19	Silvery metal shell	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
20	Silvery metal part	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---

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Part No.	Test Part Description	Note	Test Results <sup>(1)(2)</sup> (mg/kg)									
			Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	DEHP	BBP	DBP	DIBP
21	Golden metal part	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
22	Silvery metal part	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
23	Red LED	XRF	BL	BL	BL	BL	IN		---	---	---	---
		CHEM	---	---	---	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
24	Golden metal wire clip	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
25	Silvery metal sheet	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
26	Black plastic wire sheath	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
27	Brown plastic wire jacket	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.

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Part No.	Test Part Description	Note	Test Results <sup>(1)(2)</sup> (mg/kg)									
			Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	DEHP	BBP	DBP	DIBP
28	Blue plastic wire jacket	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
29	Black plastic cable jacket	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
30	Coppery metal wire	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
31	White paper with glue	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
32	Black plastic heat shrinkable tube	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
33	Black metal wire	XRF	BL	BL	BL	IN	---		---	---	---	---
		CHEM	---	---	---	Neg.	---	---	---	---	---	---
34	Black plastic shell	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.

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			Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	DEHP	BBP	DBP	DIBP
35	Silvery metal shell	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
36	Black plastic switch	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
37	Black plastic wire sheath	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
38	Brown plastic sheet	XRF	BL	BL	BL	BL	IN		---	---	---	---
		CHEM	---	---	---	---	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
39	Silvery metal solder	XRF	IN	BL	BL	BL	---		---	---	---	---
		CHEM	176	---	---	---	---	---	---	---	---	---
40	Black plastic wire jacket	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
41	Silvery metal wire	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---

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			Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	DEHP	BBP	DBP	DIBP
42	Silvery metal solder	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
43	Silvery metal solder	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
44	Black plastic heat shrinkable tube	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
45	Silvery metal shell	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
46	Silvery metal sheet	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
47	Silvery metal contact sheet	XRF	BL	BL	BL	IN	---		---	---	---	---
		CHEM	---	---	---	Neg.	---	---	---	---	---	---
48	Silvery metal contact point	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---

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			Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	DEHP	BBP	DBP	DIBP
49	White plastic sheet	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
50	White fabric wire	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
51	Coppery metal wire	XRF	BL	BL	BL	BL	---		---	---	---	---
		CHEM	---	---	---	---	---	---	---	---	---	---
52	Green plastic wire jacket	XRF	BL	BL	BL	BL	BL		---	---	---	---
		CHEM	---	---	---	---	---	---	N.D.	N.D.	N.D.	N.D.
53	Silvery metal solder	XRF	IN	BL	BL	BL	---		---	---	---	---
		CHEM	546	---	---	---	---	---	---	---	---	---

\*\*\*\*\* To be continued \*\*\*\*\*

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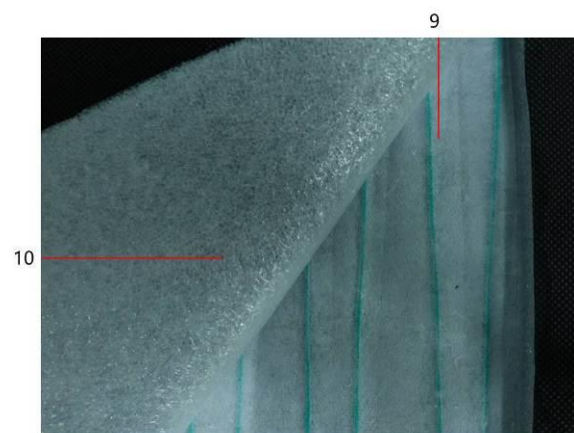
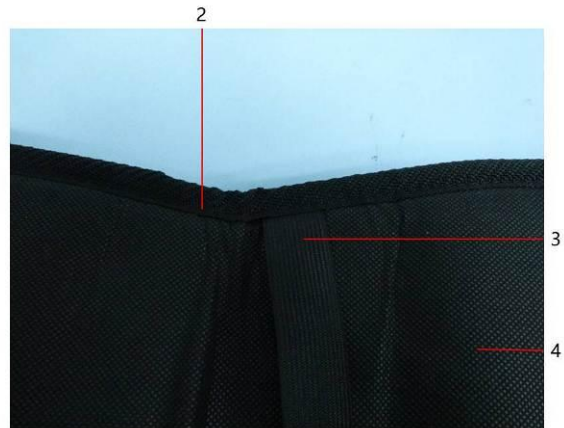
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### TEST PART PHOTOS



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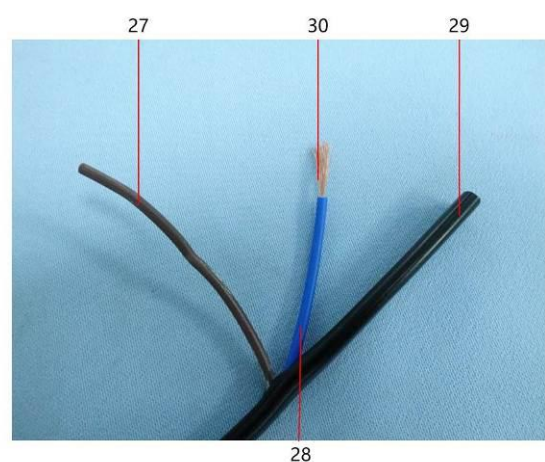
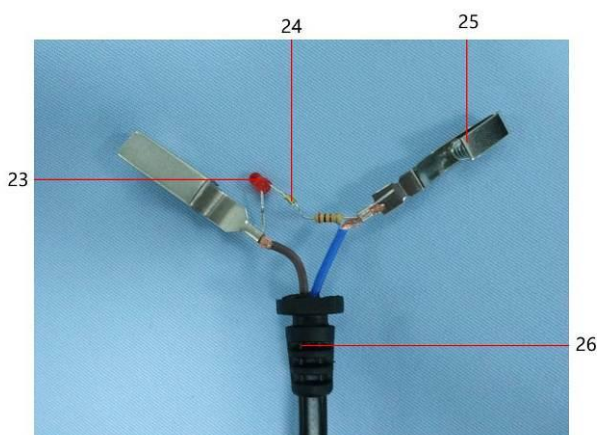
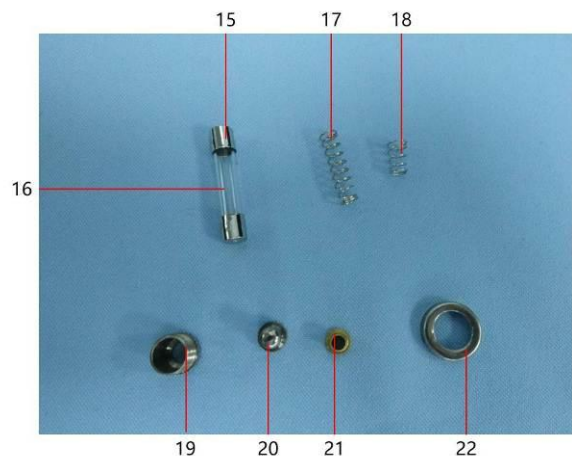
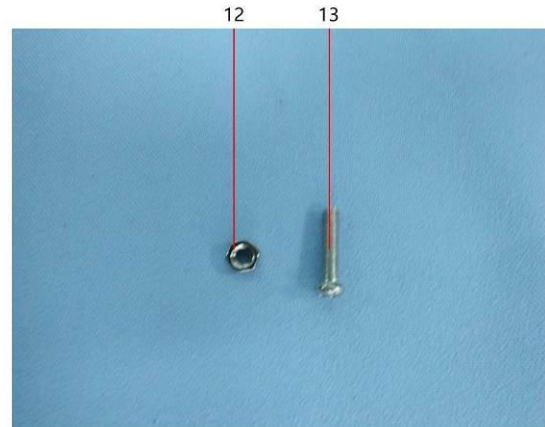
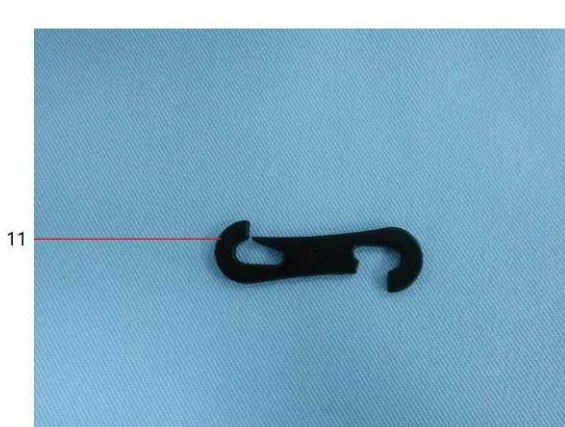


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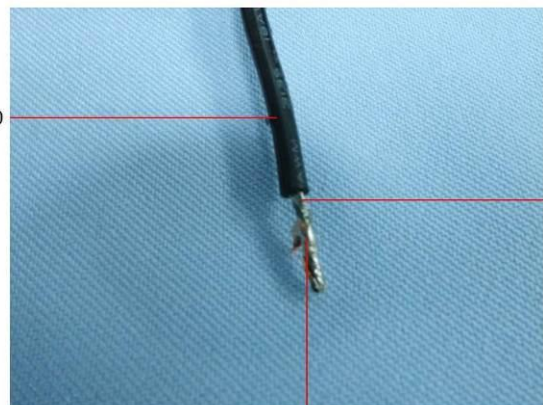
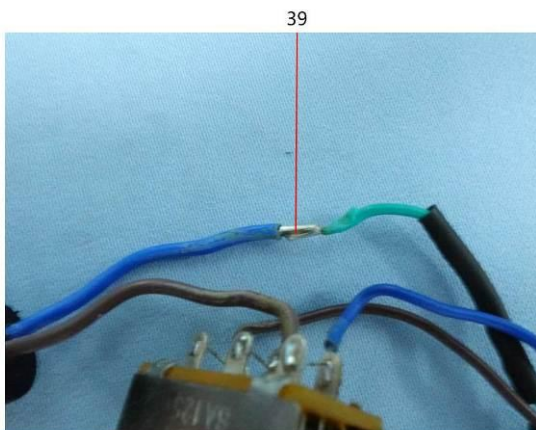
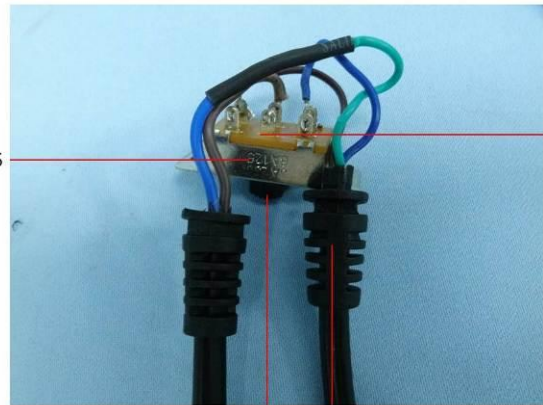
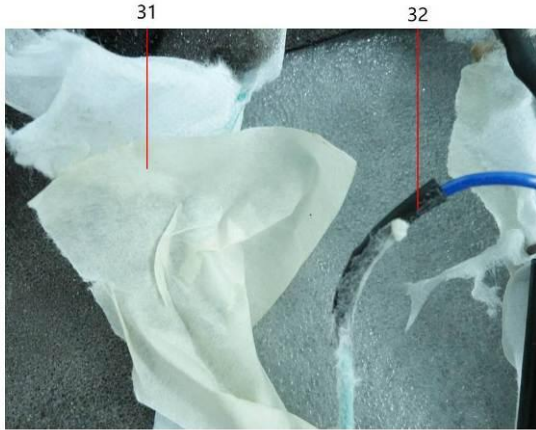
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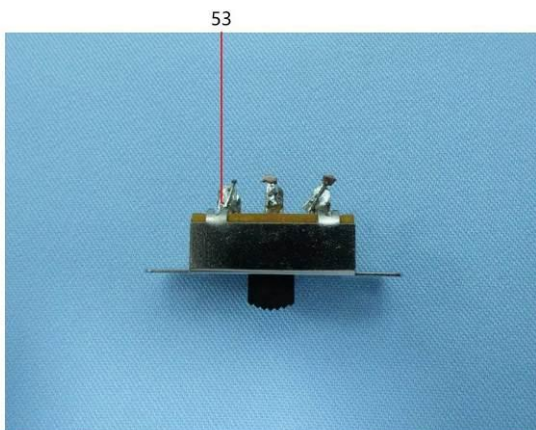
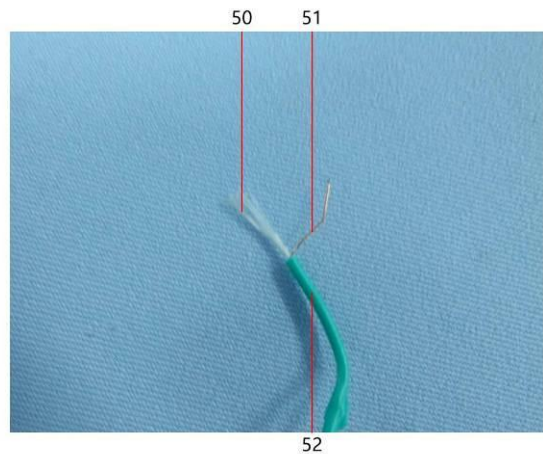
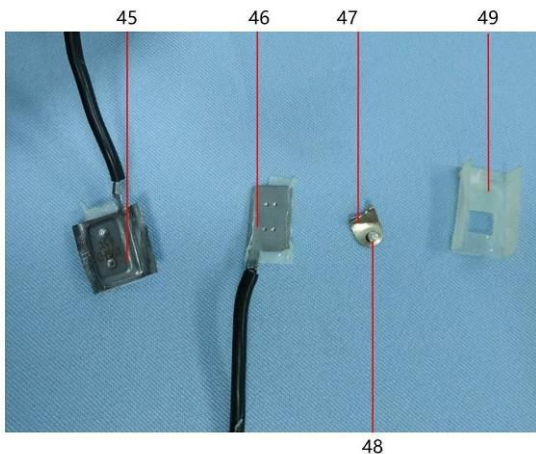
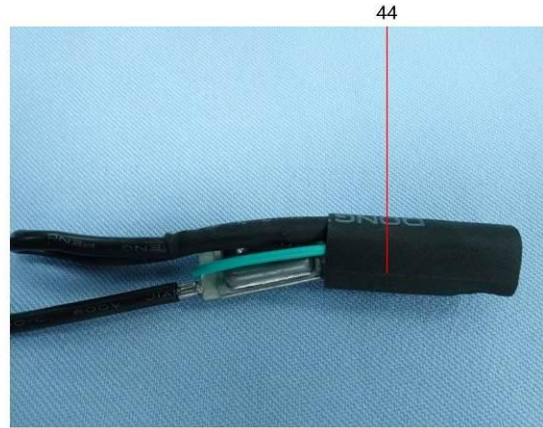
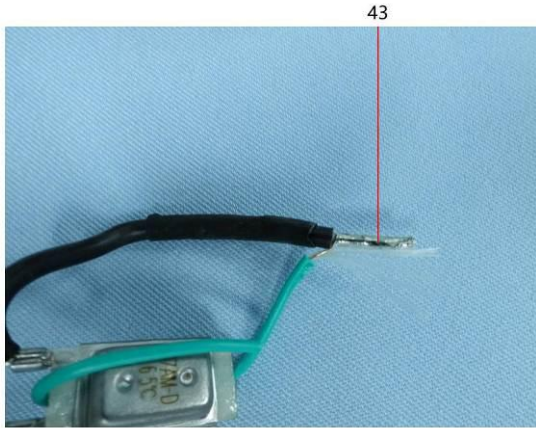


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## Remark:

### (1) For results of XRF

(a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr<sup>6+</sup>.

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr<sup>6+</sup>) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection,

-- = Not Regulated, NA = Not Applicable.

(d) The XRF screening test for RoHS elements - The reading may be different to the actual content in the sample be of non-uniformity composition.

### (2) For results of Chemical testing

(a) mg/kg = ppm = 0.0001%, N.D. = Not Detected (<MDL), --- = Not Conducted.

(b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg	DEHP	BBP	DBP	DIBP
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	50	50	50	50

The MDL for single compound of PBBs & PBDEs is 10 mg/kg and MDL of Cr<sup>6+</sup> for polymer & composite sample is 10 mg/kg.

(c) According to IEC 62321-7-1:2015, result on Cr<sup>6+</sup> for metal sample is shown as Pos./Neg.

Pos. = Positive, Neg. = Negative

Pos. = Presence of Cr<sup>6+</sup> coating, Neg. = Absence of Cr<sup>6+</sup> coating.

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### (3)RoHS Requirement

Restricted substances	Limits
Lead (Pb)	0.1% (1000mg/kg)
Cadmium (Cd)	0.01% (100mg/kg)
Mercury (Hg)	0.1% (1000mg/kg)
Chromium (VI) (Cr <sup>6+</sup> )	0.1% (1000mg/kg)
Polybrominated biphenyls (PBBs)	0.1% (1000mg/kg)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000mg/kg)
Di-(2-ethylhexyl) phthalate (DEHP)	0.1% (1000mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000mg/kg)
Di-n-butyl phthalate (DBP)	0.1% (1000mg/kg)
Di-isobutyl phthalate (DIBP)	0.1% (1000mg/kg)

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## (4)RoHS Exemptions

Exemptions	
RoHS Directive 2011/65/EU ANNEX III and its subsequent amendments	
Exemption Items	Expires Date
1,Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):	
1(a),For general lighting purposes < 30 W: 2,5 mg	Expires on 24 February 2023
1(b),For general lighting purposes ≥ 30 W and < 50 W: 3,5 mg	Expires on 24 February 2023
1(c),For general lighting purposes ≥ 50 W and < 150 W: 5 mg	Expires on 24 February 2023
1(d),For general lighting purposes ≥ 150 W: 15 mg	Expires on 24 February 2023
1(e),For general lighting purposes with circular or square structural shape and tube diameter ≤ 17 mm: 5 mg	Expires on 24 February 2023
1(f)-I ,For lamps designed to emit mainly light in the ultraviolet spectrum: 5 mg	Expires on 24 February 2027
1(f)-II ,For special purposes: 5 mg	Expires on 24 February 2025'
1(g),For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg	Expires on 24 August 2023
2(a),Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):	
2(a)(1),Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 4 mg	Expires on 24 February 2023
2(a)(2),Tri-band phosphor with normal lifetime and a tube diameter ≥ 9 mm and ≤ 17 mm (e.g. T5): 3 mg	Expires on 24 February 2023
2(a)(3),Tri-band phosphor with normal lifetime and a tube diameter > 17 mm and ≤ 28 mm (e.g. T8): 3,5 mg	Expires on 24 February 2023
2(a)(4),Tri-band phosphor with normal lifetime and a tube diameter > 28 mm (e.g. T12): 3,5 mg	Expires on 24 February 2023
2(a)(5),Tri-band phosphor with long lifetime (≥ 25 000 h): 5 mg.	Expires on 24 February 2023
2(b), Mercury in other fluorescent lamps not exceeding (per lamp):	
2(b)(2), Non-linear halophosphate lamps (all diameters): 15 mg	Expires on 13 April 2016
2(b)(3), Non-linear tri-band phosphor lamps with tube diameter > 17 mm (e.g. T9):15mg	Expires on 24 February 2023; 10 mg may be used per lamp from 25 February 2023 until 24 February 2025
2(b)(4)-I ,Lamps for other general lighting and special purposes (e.g. induction lamps): 15 mg	Expires on 24 February 2025
2(b)(4)-II ,Lamps emitting mainly light in the ultraviolet spectrum: 15 mg	Expires on 24 February 2027
2(b)(4)-III ,Emergency lamps: 15 mg	Expires on 24 February 2027

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Exemptions	
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Exemption Items	Expires Date
3,Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes used in EEE placed on the market before 24 February 2022 not exceeding (per lamp):	
3(a),Short length ( $\leq 500$ mm): 3,5 mg	Expires on 24 February 2025
3(b),Medium length ( $> 500$ mm and $\leq 1\ 500$ mm): 5 mg	Expires on 24 February 2025
3(c),Long length ( $> 1\ 500$ mm): 13 mg	Expires on 24 February 2025
4(a),Mercury in other low pressure discharge lamps (per lamp): 15 mg	Expires on 24 February 2023
4(a)-I ,Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lampspectral output to be in the ultraviolet spectrum: up to 15 mg mercury may be used per lamp	Expires on 24 February 2027
4(b),Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index $R_a > 80$ : $P \leq 105$ W: 16 mg may be used per burner	Expires on 24 February 2027
4(b)-I ,Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index $R_a > 60$ : $P \leq 155$ W: 30 mg may be used per burner	Expires on 24 February 2023
4(b)-II ,Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index $R_a > 60$ : $155\text{ W} < P \leq 405\text{ W}$ : 40 mg may be used per burner	Expires on 24 February 2023
4(b)-III ,Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index $R_a > 60$ : $P > 405\text{ W}$ : 40 mg may be used per burner	Expires on 24 February 2023
4(c),Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):	
4(c)-I , $P \leq 155\text{ W}$ : 20 mg	Expires on 24 February 2027
4(c)-II , $155\text{ W} < P \leq 405\text{ W}$ : 25 mg	Expires on 24 February 2027
4(c)-III , $P > 405\text{ W}$ : 25 mg	Expires on 24 February 2027
4(e), Mercury in metal halide lamps (MH)	Expires on 24 February 2027
4(f)-I, Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	Expires on 24 February 2025
4(f)-II, Mercury in high pressure mercury vapour lamps used in projectors where an output $\geq 2000$ lumen ANSI is required	Expires on 24 February 2027
4(f)-III, Mercury in high pressure sodium vapour lamps used for horticulture lighting	Expires on 24 February 2027
4(f)-IV, Mercury in lamps emitting light in the ultraviolet spectrum	Expires on 24 February 2027

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Exemptions	
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Exemption Items	Expires Date
4(g), Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (a) 20 mg per electrode pair+0,3mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair+0,24mg per tube length in cm, but not more than 80 mg, for all other indoor applications	Expires on 31 December 2018'
5(a), Lead in glass of cathode ray tubes	
5(b), Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	
6(a), Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0,35 % lead by weight	Expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
6(a)-I, Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight	Expires on 21 July 2021 for categories 1-7 and 10.
6(b), Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	Expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, — 21 July 2023 for category 8 in vitro diagnostic medical devices, — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
6(b)-I Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling	Expires on 21 July 2021 for categories 1-7 and 10.
6(b)-II Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	Expires on 18 May 2021 for categories 1-7 and 10

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Exemptions	
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Exemption Items	Expires Date
6(c), Copper alloy containing up to 4 % lead by weight	Expires on: — 21 July 2021 for categories 1-7 and 10, —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, —21 July 2023 for category 8 in vitro diagnostic medical devices, — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
7(a), Lead in high melting temperature type solders (i.e. lead- based alloys containing 85 % by weight or more lead)	Applies to categories 1-7 and 10 (except applications covered by point 24 of this Annex) and expires on 21 July 2021. For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 in vitro diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.
7(b), Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	

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Exemption Items	Expires Date
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	<p>Applies to categories 1-7 and 10 (except applications covered under point 34) and expires on 21 July 2021.</p> <p>For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021.</p> <p>For category 8 in vitro diagnostic medical devices expires on 21 July 2023.</p> <p>For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.</p>
7(c)-II, Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	<p>Does not apply to applications covered by point 7(c)-I and 7(c)-IV of this Annex.</p> <p>Expires on:</p> <ul style="list-style-type: none"> <li>— 21 July 2021 for categories 1-7 and 10;</li> <li>— 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments;</li> <li>— 21 July 2023 for category 8 in vitro diagnostic medical devices;</li> <li>— 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.</li> </ul>
7(c)-III, Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013

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Exemptions	
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Exemption Items	Expires Date
7(c)-IV, Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors	Expires on: — 21 July 2021 for categories 1-7 and 10; — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
8(a), Cadmium and its compounds in one shot pellet type thermal cut-offs	Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012
8(b), Cadmium and its compounds in electrical contacts	Applies to categories 8, 9 and 11 and expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
8(b)-I Cadmium and its compounds in electrical contacts used in: — circuit breakers, — thermal sensing controls, — thermal motor protectors (excluding hermetic thermal motor protectors), — AC switches rated at: — 6 A and more at 250 V AC and more, or — 12 A and more at 125 V AC and more, — DC switches rated at 20 A and more at 18 V DC and more, and — switches for use at voltage supply frequency $\geq$ 200 Hz.	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.

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Exemption Items	Expires Date
9, Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution	Applies to categories 8, 9 and 11 and expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, — 21 July 2023 for category 8 in vitro diagnostic medical devices, —21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
9(a)-I Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators (including minibars) designed to operate fully or partly with electrical heater, having an average utilised power input < 75 W at constant running conditions	Applies to categories 1-7 and 10 and expires on 5 March 2021.
9(a)-II Up to 0,75 % hexavalent chromium by weight, used as an anticorrosion agent in the cooling solution of carbon steel cooling systems of absorption refrigerators: — designed to operate fully or partly with electrical heater, having an average utilized power input $\geq$ 75 W at constant running conditions, — designed to fully operate with non-electrical heater.	Applies to categories 1-7 and 10 and expires on 5 March 2021.
9(a)-III Up to 0,7 % hexavalent chromium by weight, used as an anticorrosion agent in the working fluid of the carbon steel sealed circuit of gas absorption heat pumps for space and water heating.	Applies to category 1 and expires on 31 December 2026.
9(b), Lead in bearing shells and bushes for refrigerant- containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	Applies to categories 8, 9 and 11; expires on: — 21 July 2023 for category 8 in vitro diagnostic medical devices, —21 July 2024 for category 9 industrial monitoring and control instruments and for category 11, —21 July 2021 for other subcategories of categories 8 and 9.
9(b)-(I), Lead in bearing shells and bushes for refrigerant- containing hermetic scroll compressors with a stated electrical power input equal or below 9 kW for heating, ventilation, air conditioning and refrigeration (HVACR) applications	Applies to category 1; expires on 21 July 2019.
11(a), Lead used in C-press compliant pin connector systems	May be used in spare parts for EEE placed on the market before 24 September 2010

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Exemption Items	Expires Date
11(b), Lead used in other than C-press compliant pin connector systems	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
12, Lead as a coating material for the thermal conduction module C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010
13(a), Lead in white glasses used for optical applications	Applies to all categories; expires on: — 21 July 2023 for category 8 in vitro diagnostic medical devices; —21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; — 21 July 2021 for all other categories and subcategories
13(b),Cadmium and lead in filter glasses and glasses used for reflectance standards	Applies to categories 8, 9 and 11; expires on: — 21 July 2023 for category 8 in vitro diagnostic medical devices; —21 July 2024 for category 9 industrial monitoring and control instruments and for category 11; —21 July 2021 for other subcategories of categories 8 and 9
13(b)-(I),Lead in ion coloured optical filter glass types	Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10'
13(b)-(II) ,Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex	Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10'
13(b)-(III), Cadmium and lead in glazes used for reflectance standards	Applies to categories 1 to 7 and 10; expires on 21 July 2021 for categories 1 to 7 and 10'

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Exemption Items	Expires Date
14, Lead in solders consisting of more than two elements for the connection between the pins and the package of micropro-cessors with a lead content of more than 80 % and less than 85 % by weight	Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011
15, Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	Applies to categories 8, 9 and 11 and expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
15(a) Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies: — a semiconductor technology node of 90 nm or larger; —a single die of 300 mm <sup>2</sup> or larger in any semiconductor technology node; —stacked die packages with die of 300 mm <sup>2</sup> or larger, or silicon interposers of 300 mm <sup>2</sup> or larger.	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.
17, Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	
18(b), Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb)	Expires on: — 21 July 2021 for categories 1-7 and 10; —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; —21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
18(b)-I Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb) when used in medical phototherapy equipment	Applies to categories 5 and 8, excluding applications covered by entry 34 of Annex IV, and expires on 21 July 2021.

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Exemption Items	Expires Date
21, Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Applies to categories 8, 9 and 11 and expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
21(a) Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE	Applies to categories 1 to 7 and 10 except applications covered by entry 21(b) or entry 39 and expires on 21 July 2021.
21(b) Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Applies to categories 1 to 7 and 10 except applications covered by entry 21(a) or 39 and expires on 21 July 2021.
21(c) Lead in printing inks for the application of enamels on other than borosilicate glasses	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.
23, Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	May be used in spare parts for EEE placed on the market before 24 September 2010
24, Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Expires on: — 21 July 2021 for categories 1-7 and 10, — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, — 21 July 2023 for category 8 in vitro diagnostic medical devices, — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
25, Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	

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Exemption Items	Expires Date
29, Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC <sup>(1)</sup>	Expires on: — 21 July 2021 for categories 1-7 and 10; — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
30, Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more	
31, Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)	
32, Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Expires on: — 21 July 2021 for categories 1-7 and 10, — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, — 21 July 2023 for category 8 in vitro diagnostic medical devices, — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
33, Lead in solders for the soldering of thin copper wires of 100 μm diameter and less in power transformers	
34, Lead in cermet-based trimmer potentiometer elements	Applies to all categories; expires on: — 21 July 2021 for categories 1-7 and 10, — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, — 21 July 2023 for category 8 in vitro diagnostic medical devices, — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.

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Exemption Items	Expires Date
37, Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	Expires on: — 21 July 2021 for categories 1-7 and 10; — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
38, Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	
39(a), Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm <sup>2</sup> of display screen area)	Expires for all categories on 21 November 2025.
39(b), Cadmium in downshifting semiconductor nanocrystal quantum dots directly deposited on LED semiconductor chips for use in display and projection applications (< 5 µg Cd per mm <sup>2</sup> of LED chip surface) with a maximum amount per device of 1 mg	Expires for all categories on 31 December 2027.
41, Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council)	Applies to all categories and expires on: — 31 March 2022 for categories 1 to 7, 10 and 11; — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments.

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<p>42, Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment:</p> <p>— with engine total displacement <math>\geq</math> 15 litres;</p> <p>or</p> <p>— with engine total displacement &lt; 15 litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture application</p>	<p>Applies to category 11, excluding applications covered by entry 6(c) of this Annex. Expires on 21 July 2024.</p>
<p>43, Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed:</p> <p>(a) 30 % by weight of the rubber for</p> <p>(i) gasket coatings;</p> <p>(ii) solid-rubber gaskets; or</p> <p>(iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine.</p> <p>(b) 10 % by weight of the rubber for rubber-containing components not referred to in point (a).</p> <p>For the purposes of this entry, “prolonged contact with human skin” means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.</p>	<p>Applies to category 11 and expires on 21 July 2024.</p>
<p>44. Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council (*), installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users</p>	<p>Applies to category 11 and expires on 21 July 2024.</p>

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Exemption Items	Expires Date
45. Lead diazide, lead styphnate, lead dipicramate, orange lead (lead tetroxide), lead dioxide in electric and electronic initiators of explosives for civil (professional) use and barium chromate in long time pyrotechnic delay charges of electric initiators of explosives for civil (professional) use	Applies to category 11 and expires on 20 April 2026'
<p>46. Cadmium and lead in plastic profiles containing mixtures produced from polyvinyl chloride waste (hereinafter referred to as "recovered rigid PVC"), used for electrical and electronic windows and doors, where the concentration in the recovered rigid PVC material does not exceed 0,1 % cadmium by weight and 1,5 % lead by weight.</p> <p>From 28 May 2026, rigid PVC recovered from electrical and electronic windows and doors shall only be used for the production of new articles under the categories specified in entry 63, points 18(a) to (d) of Annex XVII to Regulation (EC) No 1907/2006.</p> <p>Suppliers of PVC articles containing recovered rigid PVC with a concentration of lead equal to or greater than 0,1 % by weight of the PVC material shall ensure, before placing those articles on the market, that they are visibly, legibly and indelibly marked with the statement: "Contains ≥ 0,1 % lead". Where the marking cannot be provided on the article due to the nature of the article, it shall be on the packaging of the article.</p> <p>Suppliers of PVC articles containing recovered rigid PVC shall submit to national enforcement authorities upon request documentary evidence to substantiate the claims on the recovered origin of the PVC in those articles. Certificates issued by schemes to provide proof of traceability and recycled content, such as those developed according to EN 15343:2007 or equivalent recognised standards, may be used to substantiate such claims for PVC articles produced in the Union. Claims made on the recovered origin of the PVC in imported articles shall be accompanied by a certificate that provides equivalent proof of traceability and recycled content, issued by an independent third party.</p>	Applies to category 11 and expires on 28 May 2028.
<p>Note: <sup>(1)</sup> OJ L 326, 29.12.1969, p.36.</p> <p>(*) Regulation (EU) 2016/1628 of the European Parliament and of the Council of 14 September 2016 on requirements relating to gaseous and particulate pollutant emission limits and type-approval for internal combustion engines for non-road mobile machinery, amending Regulations (EU) No 1024/2012 and (EU) No 167/2013, and amending and repealing Directive 97/68/EC (OJ L 252, 16.9.2016, p. 53).'</p>	

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Exemption Items	Expires Date
1. Lead, cadmium and mercury in detectors for ionising radiation.	
2. Lead bearings in X-ray tubes.	
3. Lead in electromagnetic radiation amplification devices: micro-channel plate and capillary plate.	
4. Lead in glass frit of X-ray tubes and image intensifiers and lead in glass frit binder for assembly of gas lasers and for vacuum tubes that convert electromagnetic radiation into electrons.	
5. Lead in shielding for ionising radiation.	
6. Lead in X-ray test objects.	
7. Lead stearate X-ray diffraction crystals.	
8. Radioactive cadmium isotope source for portable X-ray fluorescence spectrometers. Sensors, detectors and electrodes	
8.1a. Lead and cadmium in ion selective electrodes including glass of pH electrodes.	
8.1b. Lead anodes in electrochemical oxygen sensors.	
8.1c. Lead, cadmium and mercury in infra-red light detectors.	
8.1d. Mercury in reference electrodes: low chloride mercury chloride, mercury sulphate and mercury oxide.	
9. Cadmium in helium-cadmium lasers.	
10. Lead and cadmium in atomic absorption spectroscopy lamps.	
11. Lead in alloys as a superconductor and thermal conductor in MRI.	
12. Lead and cadmium in metallic bonds creating superconducting magnetic circuits in MRI, SQUID, NMR (Nuclear Magnetic Resonance) or FTMS (Fourier Transform Mass Spectrometer) detectors.	Expires on 30 June 2021
13. Lead in counterweights.	
14. Lead in single crystal piezoelectric materials for ultrasonic transducers.	
15. Lead in solders for bonding to ultrasonic transducers.	
16. Mercury in very high accuracy capacitance and loss measurement bridges and in high frequency RF switches and relays in monitoring and control instruments not exceeding 20 mg of mercury per switch or relay.	
17. Lead in solders in portable emergency defibrillators.	
18. Lead in solders of high performance infrared imaging modules to detect in the range 8-14 $\mu\text{m}$ .	
19. Lead in Liquid crystal on silicon (LcoS) displays.	
20. Cadmium in X-ray measurement filters.	
21. Cadmium in phosphor coatings in image intensifiers for X-ray images until 31 December 2019 and in spare parts for X-ray systems placed on the EU market before 1 January 2020.	
22. Lead acetate marker for use in stereotactic head frames for use with CT and MRI and in positioning systems for gamma beam and particle therapy equipment.	Expires on 30 June 2021.
23. Lead as an alloying element for bearings and wear surfaces in medical equipment exposed to ionising radiation.	Expires on 30 June 2021

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Exemption Items	Expires Date
24. Lead enabling vacuum tight connections between aluminium and steel in X-ray image intensifiers.	Expires on 31 December 2019
25. Lead in the surface coatings of pin connector systems requiring nonmagnetic connectors which are used durably at a temperature below – 20 °C under normal operating and storage conditions.	Expires on 30 June 2021
26. Lead in the following applications that are used durably at a temperature below – 20 °C under normal operating and storage conditions: (a) solders on printed circuit boards; (b) termination coatings of electrical and electronic components and coatings of printed circuit boards; (c) solders for connecting wires and cables; (d) solders connecting transducers and sensors. Lead in solders of electrical connections to temperature measurement sensors in devices which are designed to be used periodically at temperatures below – 150 °C.	Expires on 30 June 2021
27. Lead in — solders, — termination coatings of electrical and electronic components and printed circuit boards, — connections of electrical wires, shields and enclosed connectors, which are used in (a) magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance imaging equipment, including patient monitors designed to be used within this sphere, or (b) magnetic fields within 1 m distance from the external surfaces of cyclotron magnets, magnets for beam transport and beam direction control applied for particle therapy. (c) MRI non-integrated coils, for which the Declaration of Conformity of this model is issued for the first time before 23 September 2022, or (d) MRI devices including integrated coils, which are used in magnetic fields within the sphere of 1 m radius around the isocentre of the magnet in medical magnetic resonance imaging equipment, for which the Declaration of Conformity is issued for the first time before 30 June 2024.	Expires on 30 June 2027.
28. Lead in solders for mounting cadmium telluride and cadmium zinc telluride digital array detectors to printed circuit boards.	Expires on 31 December 2017
29. Lead in alloys, as a superconductor or thermal conductor, used in cryo-cooler cold heads and/or in cryo-cooled cold probes and/or in cryo-cooled equipotential bonding systems, in medical devices (category 8) and/or in industrial monitoring and control instruments.	Expires on 30 June 2021
30. Hexavalent chromium in alkali dispensers used to create photocathodes in X-ray image intensifiers until 31 December 2019 and in spare parts for X-ray systems placed on the EU market before 1 January 2020.	

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV and its subsequent amendments Equipment utilising or detecting ionising radiation	
Exemption Items	Expires Date
31a. Lead, cadmium, hexavalent chromium, and polybrominated diphenyl ethers (PBDE) in spare parts recovered from and used for the repair or refurbishment of medical devices, including in vitro diagnostic medical devices, or electron microscopes and their accessories, provided that the reuse takes place in auditable closed-loop business-to-business return systems and that each reuse of parts is notified to the customer.	Expires on: (a) 21 July 2021 for the use in medical devices other than in vitro diagnostic medical devices; (b) 21 July 2023 for the use in in vitro diagnostic medical devices; (c) 21 July 2024 for the use in electron microscopes and their accessories.'
32. Lead in solders on printed circuit boards of detectors and data acquisition units for Positron Emission Tomographs which are integrated into Magnetic Resonance Imaging equipment.	Expires on 31 December 2019
33. Lead in solders on populated printed circuit boards used in Directive 93/42/EEC class IIa and IIb mobile medical devices other than portable emergency defibrillators.	Expires on 30 June 2016 for class IIa and on 31 December 2020 for class IIb.
34. Lead as an activator in the fluorescent powder of discharge lamps when used for extracorporeal photopheresis lamps containing BSP (BaSi <sub>2</sub> O <sub>5</sub> :Pb) phosphors.	Expires on 22 July 2021
35. Mercury in cold cathode fluorescent lamps for back-lighting liquid crystal displays, not exceeding 5 mg per lamp, used in industrial monitoring and control instruments placed on the market before 22 July 2017	Expires on 21 July 2024
36. Lead used in other than C-press compliant pin connector systems for industrial monitoring and control instruments.	Expires on 31 December 2020. May be used after that date in spare parts for industrial monitoring and control instruments placed on the market before 1 January 2021.'

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV and its subsequent amendments Equipment utilising or detecting ionising radiation	
Exemption Items	Expires Date
37. Lead in platinized platinum electrodes used for conductivity measurements where at least one of the following conditions applies: (a) wide-range measurements with a conductivity range covering more than 1 order of magnitude (e.g. range between 0,1 mS/m and 5 mS/m) in laboratory applications for unknown concentrations; (b) measurements of solutions where an accuracy of $\pm 1\%$ of the sample range and where high corrosion resistance of the electrode are required for any of the following: (i) solutions with an acidity $< \text{pH } 1$ ; (ii) solutions with an alkalinity $> \text{pH } 13$ ; (iii) corrosive solutions containing halogen gas; (c) measurements of conductivities above 100 mS/m that must be performed with portable instruments.	Expires on 31 December 2025
38. Lead in solder in one interface of large area stacked die elements with more than 500 interconnects per interface which are used in X-ray detectors of computed tomography and X-ray systems	Expires on 31 December 2019. May be used after that date in spare parts for CT and X-ray systems placed on the market before 1 January 2020.
39. Lead in micro-channel plates (MCPs) used in equipment where at least one of the following properties is present: (a) a compact size of the detector for electrons or ions, where the space for the detector is limited to a maximum of 3 mm/MCP (detector thickness+space for installation of the MCP), a maximum of 6 mm in total, and an alternative design yielding more space for the detector is scientifically and technically impracticable; (b) a two-dimensional spatial resolution for detecting electrons or ions, where at least one of the following applies: (i) a response time shorter than 25 ns; (ii) a sample detection area larger than $149 \text{ mm}^2$ ; (iii) a multiplication factor larger than $1,3 \times 10^3$ . (c) a response time shorter than 5 ns for detecting electrons or ions; (d) a sample detection area larger than $314 \text{ mm}^2$ for detecting electrons or ions; (e) a multiplication factor larger than $4,0 \times 10^7$ .	(a) 21 July 2021 for medical devices and monitoring and control instruments; (b) 21 July 2023 for in-vitro diagnostic medical devices; (c) 21 July 2024 for industrial monitoring and control instruments

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Exemptions	
RoHS Directive 2011/65/EU ANNEX IV and its subsequent amendments Equipment utilising or detecting ionising radiation	
Exemption Items	Expires Date
40. Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC for industrial monitoring and control instruments	Expires on 31 December 2020. May be used after that date in spare parts for industrial monitoring and control instruments placed on the market before 1 January 2021
41. Lead as a thermal stabiliser in polyvinyl chloride (PVC) used as base material in amperometric, potentiometric and conductometric electrochemical sensors which are used in in-vitro diagnostic medical devices for the analysis of blood and other body fluids and body gases.	Expires on 31 March 2022
41(a). Lead as a thermal stabilizer in polyvinyl chloride (PVC) used as base material in amperometric, potentiometric and conductometric electrochemical sensors which are used in in vitro diagnostic medical devices for the analysis of creatinine and blood urea nitrogen in whole blood.	Applies to category 8 and expires on 31 December 2023
42. Mercury in electric rotating connectors used in intravascular ultrasound imaging systems capable of high operating frequency (> 50 MHz) modes of operation.	Expires on 30 June 2026
43. Cadmium anodes in Hersch cells for oxygen sensors used in industrial monitoring and control instruments, where sensitivity below 10 ppm is required.	Expires on 15 July 2023
44. Cadmium in radiation tolerant video camera tubes designed for cameras with a centre resolution greater than 450 TV lines which are used in environments with ionising radiation exposure exceeding 100 Gy/hour and a total dose in excess of 100kGy.	Applies to category 9. Expires on 31 March 2027.
45. Bis(2-ethylhexyl) phthalate (DEHP) in ion-selective electrodes applied in point of care analysis of ionic substances present in human body fluids and/or in dialysate fluids	Expires on 21 July 2028.
46. Bis(2-ethylhexyl) phthalate (DEHP) in plastic components in MRI detector coils	Expires on 1 January 2024.
47. Bis(2-ethylhexyl) phthalate (DEHP), butyl benzyl phthalate (BBP), dibutyl phthalate (DBP) and diisobutyl phthalate (DIBP) in spare parts recovered from and used for the repair or refurbishment of medical devices, including in vitro diagnostic medical devices, and their accessories, provided that the reuse takes place in auditable closed-loop business-to-business return systems and that each reuse of parts is notified to the customer	Expires on 21 July 2028.
48. Lead in bismuth strontium calcium copper oxide (BSCCO) superconductor cables and wires and lead in electrical connections to these wires.	Expires on 30 June 2027.
49. Mercury in melt pressure transducers for capillary rheometers at temperatures over 300 °C and pressures over 1 000 bar.	Applies to category 9 and expires on 31 December 2025.

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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