Test Report

No.: EDG2610120302C00101R Date: Oct. 21, 2026 Page 1 of 12

Applicant	:	Norden Logic Oy
Address	:	Hämeentie 125
Sample Name	:	printer controller
Style/Item No.	:	NL025
Received Date	:	Oct. 13, 2026
Test Period	:	Oct. 13, 2026 ~ Oct. 21, 2026
Test Requested	:	As requested by the client, to evaluate the compliance of the submitted sample with EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
Test Method	:	1. Review was performed for the sample and the related Bill of Materials submitted by the Applicant. 2. a) Refer to the standard IEC 62321-3-1:2026★: Screening by XRF Spectroscopy. b) Wet chemical test 1) Refer to IEC 62321-5:2013, determine the Cadmium, Lead content by ICP-OES. 2) Refer to IEC 62321-4:2013+A1:2017, determine the Mercury content by ICP-OES; 3) Refer to IEC 62321-7-1:2015 & IEC 62321-7-2:2017, determine the Hexavalent Chromium content by UV-VIS. 4) Refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS. 5) Refer to IEC 62321-8:2017, determine the Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP), Di-2-ethylhexyl phthalate(DEHP) and Diisobutyl phthalate(DIBP) by GC-MS.
Test Results	:	Please refer to next page (s).

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Test Report

Conclusion:

Basing on the test results obtained from the homogenous materials, the submitted sample **COMPLIES** with the EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863.

Signed for and on behalf of
EMTEK(Dongguan) Co., Ltd.

Prepared by:	Reviewed by:	Approved by:
Huang Fenglan, Polly	Zeng Xingji, Cindy	Li Wei, Lisa
Report Engineer	Supervisor	Authorized signatory
		Oct. 21, 2026

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Test Report

Test Results:

1. Pb, Cd, Hg, Cr^{6+}, PBBs, PBDEs Test Results:

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
1	Green PCB	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	X	ND		
		PBDEs			ND		
2	Black solid	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
3	SMD IC	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
4	SMD IC	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
5	Black solid	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

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Test Report

No.	Sample description	Restricted substances	Analytical element	Results of EDXRF(1)	Results of Chemical Testing(2) (mg/kg)	Conclusion	Remark
6	SMD capacitor	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
7	SMD triode	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
8	SMD capacitor	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					
9	SMD resister	Pb	Pb	BL	NA	Pass	No comment
		Cd	Cd	BL			
		Hg	Hg	BL			
		Cr^{6+}	Cr	BL			
		PBBs	Br	BL			
		PBDEs					

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Test Report

Test Results:

2. Phthalates (DBP, BBP, DEHP, DIBP) Test Results:

Test Item	Test Result (mg/kg)			MDL (mg/kg)	Requirement Limit (mg/kg)
	1+2+3	4+5+6	7+8+9		
Dibutyl phthalate(DBP)	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	30	1000
Conclusion	Pass	Pass	Pass	---	---

Note: mg/kg = parts per million = ppm ND = Not Detected (less than MDL) MDL = Method Detection Limit

Test Materials List:

Item No.	Description
1	Green PCB
2	Black solid
3	SMD IC
4	SMD IC
5	Black solid
6	SMD capacitor
7	SMD triode
8	SMD capacitor
9	SMD resister

Note: As specified by the client, the samples were subjected to mixed testing.

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Remark: (1) ① Results are obtained by XRF for primary screening, and further wet chemical testing by ICP-OES / AAS (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).

② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA= Not Applicable.

③ XRF screening test for RoHS elements – The test result may be different from the actual content in the non-uniformity composition sample.

Element	Plastics	Metals	Composite Material
Cd	BL ≤(70-3σ)< X <(130+3σ) ≤ OL	BL ≤(70-3σ)< X <(130+3σ) ≤ OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (700-3σ)< X	NA	BL ≤ (500-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

(2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (less than MDL), MDL = Method Detection Limit.

② Unit, Method Detection Limit (MDL) and Requirement limit in wet chemical test.

Test items	Pb	Cd	Hg	Cr^{6+}(Non-metal)	Cr^{6+}(metal)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	2	2	2	8	---	5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

③ According to IEC 62321-7-1:2015, result on Cr^{6+} for metal sample shall be shown as Positive/Negative.

a) The Cr(VI) concentration is more than 0.13 μg/cm^2, the sample is positive for Cr(VI), the coating is considered to contain Cr(VI).

b) The Cr(VI) concentration is less than 0.10 μg/cm^2, the sample is negative for Cr(VI), the coating is considered a non-Cr(VI) based coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr^{6+} represent status of the sample at the time of testing.

④ According to IEC 62321-3-1:2026, this column represents the results of wet chem test. And "NA" means no need to perform wet chem test, when the XRF screening results are acceptable.

(3) "★" = The test about this project was not within the scope of CNAS accreditations.

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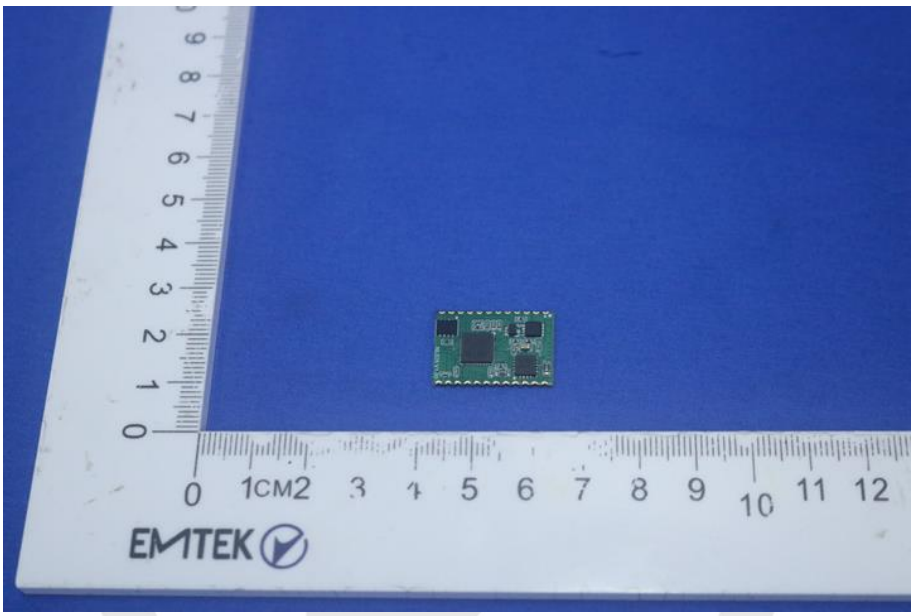
Test Report

Sample Photo



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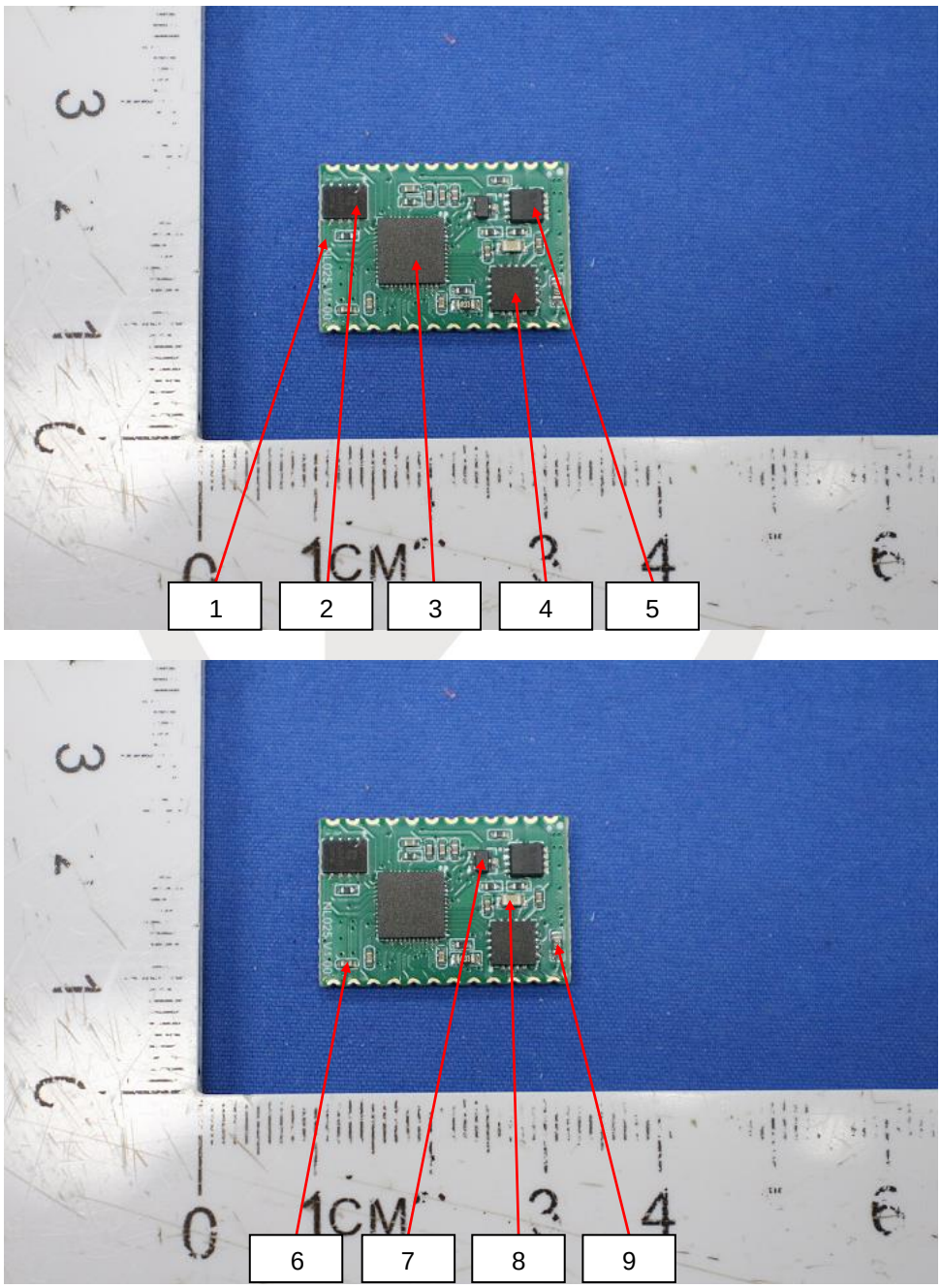
Test Report

Sample Photo



*** End of Report ***

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Test Report

ANNEX

EXEMPTION LIST

1 Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
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)
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)
4(a)-Ⅰ Mercury in low pressure non-phosphor coated discharge lamps, where the application requires the main range of the lamp-spectral 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 Ra > 80: P ⩽ 105 W: 16 mg may be used per burner (Expires on 24 February 2027)
4(c) Mercury in other High-Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
4(c)-Ⅰ P ⩽ 155 W: 20 mg (Expires on 24 February 2027)
4(c)-Ⅱ 155 W < P ⩽ 405 W: 25 mg (Expires on 24 February 2027)
4(c)-Ⅲ P > 405 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 ⩾ 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)
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 11 december 2026)
6(a)-Ⅰ Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight (Expires on 30 June 2027 for all categories.)
6(a)-Ⅱ Lead as an alloying element in batch hot-dip galvanised steel components containing up to 0,2 % lead by weight(Expires on 30 June 2027 for all categories.)
6(b) Lead as an alloying element in aluminium containing up to 0,4 % lead by weight (Expires on 11 June 2027)
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 11 december 2026 for categories 1-7, 10. Expires on 30 June 2027 for categories 9 industrial monitoring and control instruments, and 11).
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 11 June 2027 for categories 1-7, 10. Expires on 30 June 2027 for categories 9 industrial monitoring and control instruments and 11)
6(b)-Ⅲ Lead as an alloying element in aluminium casting alloys containing up to 0,3% lead by weight provided it stems from lead-bearing aluminium scrap recycling (Expires on 30 June 2027 for categories 1-8, 9 other than industrial monitoring and control instruments, and 10.)
6(c) coppery alloy containing up to 4% lead by weight (Expires on 30 June 2027.)
7(a) Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead) .Applies to all categories (exceptapplications covered by point 24 of this Annex) and expires on 30 June 2027.
7(a)-Ⅰ Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)
for internal interconnections for attaching die, or other components along with a die in semiconductor assembly with steady state or transient/impulse currents of 0,1 A or greater or blocking voltages beyond 10 V, or die edge sizes larger than 0.3 mm × 0.3 mm.Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.
7(a)-Ⅱ Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)
for integral (meaning internal and external) connections of die attach in electrical and electronic components, if all the following conditions are met:
—the thermal conductivity of the cured/sintered die-attach material is > 35 W/(m × K),
—the electrical conductivity of the cured/sintered die-attach material is > 4,7 MS/m,
—solidus melting temperature is higher than 260 ° C
（Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.）
7(a)-Ⅲ Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)
in first level solder joints (internal or integral connections – meaning internal and external) for manufacturing components so that subsequent mounting of electronic components onto subassemblies (i.e. modules, sub-circuit boards, substrates, or point-to-point soldering) with a secondary solder does not reflow the first level solder. This sub-entry excludes die attach applications and hermetic sealings. (Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.)

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ANNEX

EXEMPTION LIST

Continued

7(a)-IV Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) in second level solder joints for the attachment of components to printed circuit board or lead frames:
(1)in solder balls for the attachment of ceramic ball-grid-array (BGA);
(2)in high temperature plastic overmouldings (> 220 ℃)
(Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.)

7(a)-V Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) for establishing electrical connections between lamp components in incandescent reflector lamps for infrared heating, high intensity discharge lamps, or oven lamps

7(a)-VI Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) for establishing electrical connections between lamp components in incandescent reflector lamps for infrared heating, high intensity discharge lamps, or oven lamps(Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.)

7(a)-VII Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) for audio transducers where the peak operating temperature exceeds 200 ℃
(Applies to all categories (except applications covered by point 24 of this Annex) and expires on 31 December 2027.)

7(b) Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling,transmission, and network management for telecommunications

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 (Expires on 30 June 2027)

7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher Applies to all categories (except applications covered by point 7(c)-I or 7(c)-IV) and expires on 31 December 2027.

7(c)-V Electrical and electronic components containing lead in a glass or glass matrix compound that fulfils any of the following functions:
(1)for protection and electrical insulation in glass beads of high-voltage diodes and glass layers for wafers;
(2)for hermetic sealing between ceramic, metal and/or glass parts;
(3)for bonding purposes in a process parameter window for < 500 ℃ combined with a viscosity of 1 013,3 dPas (‘glass-transition temperature’);
(4)for use as a resistive material such as ink, with a resistivity range from 1 ohm/square to 100 megohm/square, excluding trimmer potentiometers;
(5)for use in chemically modified glass surfaces for microchannel plates (MCPs), channel electron multipliers (CEMs) and resistive glass products (RGPs).

7(c)-VI Electrical and electronic components containing lead in a ceramic that fulfils the following functions :
(1)for use in piezoelectric lead zirconium titanate (PZT) ceramics;
(2)for providing ceramics with a positive temperature coefficient (PTC).
(Applies to all categories (except applications covered by points 7(c)-II, 7(c)-III and 7(c)-IV of this Annex as well as point 14 of Annex IV) and expires on 31 December 2027.)

8(b) Cadmium and its compounds in electrical contacts

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 ⩾ 200 Hz.

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 utilised power input ⩾ 75 W at constant running conditions,
— designed to fully operate with non-electrical heater

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ANNEX

EXEMPTION LIST

Continued

13(a)	Lead in white glasses used for optical applications
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards
13(b)-I	Lead in ion coloured optical filter glass types
13(b)-II	Cadmium in striking optical filter glass types; excluding applications falling under point 39 of this Annex
13(b)-III	Cadmium and lead in glazes used for reflectance standards
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages
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 mm2 or larger in any semiconductor technology node; — stacked die packages with die of 300 mm2 or larger, or silicon interposers of 300 mm2 or larger
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 ($BaSi_2O_5$: Pb)
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors
29	Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes
34	Lead in cermet-based trimmer potentiometer elements
39(a)	Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0.2 μg Cd per mm^2 of display screen area)
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^2 of LED chip surface) with a maximum amount per device of 1 mg
42	Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment: — with engine total displacement ⩾ 15 litres; or — with engine total displacement < 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 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 applications
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.
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)
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. 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. 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. 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 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.

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Test Report

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签发测试报告条款
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