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(Date): 14-Jun-2024

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(EVERLIGHT ELECTRONICS CO., LTD.)

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(The following sample(s) was/were submitted and identified by the applicant

as)

BASIC INFORMATION			
Type of Product	SIDE LOOKING		
Supplier Company Name	EVERLIGHT		
Address	NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN		
Tel / Fax / Email	TEL:886-2685-6688		
	FAX:886-2685-6699		
	E-MAIL: lindawang@everlight.com		
Contact Person	LI LING WANG		
EVERLIGHT REPORT NO	SIDE LOOKING: IR9XX HIR9XX PT9XX PT5XXX PT2XXX PD4XX PD6XX OPIC SERIES		
	Sampling Product: PT928-6C-SGS-14-Jun-2024		
PRODUCT INFORMATION			
Product/component Sample description	LIGHT-ELECTRICITY SWITCH		
Quantity (numbers or weight)	0.1014 g		
EVERLIGHT P/N	SIDE LOOKING: IR9XX HIR9XX PT9XX PT5XXX PT2XXX PD4XX PD6XX OPIC SERIES Sampling Product: PT928-6C		
Product Lot No	SZ2405095BDGX-2		
Country of Origin	CHINA		
TEST INFORMATION	_		
Sample preparation	CUTTING		
Test Method	RoHS: IEC 62321, Halogen: BS EN 14582		
MDL	Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg		
(Compared Code with all Da)			

(Sample Submitted By) : (EVERLIGHT ELECTRONICS CO., LTD.)

(Sample Receiving Date) : 31-May-2024

(Testing Period) : 31-May-2024 to 14-Jun-2024

(Test Results) : (Please refer to following pages).





PIN CODE: D09A88A



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(Test Requested) : (1) RoHS 2011/65/EU Annex II (EU) 2015/863

, DBP, BBP, DEHP, DIBP (As specified

by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP,

BBP, DEHP, DIBP contents in the submitted sample(s).)

(2) PAHs (As specified by client, to test PAHs and

other item(s).)

(Conclusion) : (1) , DBP, BBP,

DEHP, DIBP RoHS 2011/65/EU Annex II

(EU) 2015/863

(Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II

to Directive 2011/65/EU.)

(A fPS) GS

PAHs 3 (Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 3) Other consumer products as set by German

Committee on Product Safety (AfPS) GS PAHs.)

(Test Part Description)

No.1 : (BODY)

No.2 : (PLATING LAYER OF SILVER COLORED METAL PIN)
No.3 : (BASE MATERIAL OF SILVER COLORED METAL PIN)

No.4 : () (SILVER COLORED METAL PIN (INCLUDING THE PLATING LAYER))

(Test Results)

(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
				No.1	No.2	No.3	
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013	mg/kg	2	n.d.			100
(PD) (Lead (PD))	(With reference to IEC 62321- 5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.			1000



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		MDL				
(Method)	(Unit)					(Limit)
			No.1	No.2	No.3	
IEC 62321-4: 2013+ AMD1:	mg/kg	2	n.d.			1000
2017						
(With reference to IEC 62321-4: 2013+ AMD1: 2017,						
analysis was performed by ICP-						
OES.)						
IEC 62321-7-2: 2017	mg/kg	8	n.d.			1000
-	mg/ng	Ü	11.0.			1000
(With reference to IEC						
62321-7-2: 2017, analysis was						
performed by UV-VIS.)						
	mg/kg	5	n.d.			-
	mg/kg	5	n.d.			-
	mg/kg	5	n.d.			-
	mg/kg	5	n.d.			-
	mg/kg	5	n.d.			-
	mg/kg	5	n.d.			-
	mg/kg	5	n.d.			-
	mg/kg	5	n.d.			-
	mg/kg	5	n.d.			-
	mg/kg	5	n.d.			-
	mg/kg	-	n.d.			1000
	mg/kg					



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		(A.4. II. IV.	(1.1)	MDL				(1.1
		(Method)	(Unit)		No.1	No.2	No.3	(Limit)
			mg/kg	50	n.d.			1000
phthalate (DBP))	(DBP) (Dibutyl		mg/kg	50	n.d.			1000
primarate (DDI))			mg/kg	50	n.d.			1000
	(DIBP) (Diisobut(D		mg/kg	50	n.d.			1000
			mg/kg	50	n.d.			-
(Diisononyl phtha No.: 28553-12-0,	(DINP) alate (DINP)) (CAS		mg/kg	50	n.d.			-
NO 20333-12-0,	00313-40-0)		mg/kg	50	n.d.			-
			mg/kg	50	n.d.			-
			mg/kg	50	n.d.			-
			mg/kg	50	n.d.			-
			mg/kg	50	n.d.			-
			mg/kg	50	n.d.			-



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(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
				No.1	No.2	No.3	
(DNNP) (Di-n- nonyl phthalate (DNNP)) (CAS No.: 84-76-4)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.			-
(HBCDD) (- HBCDD, - HBCDD, - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (- HBCDD, - HBCDD, - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.			,
(F) (Fluorine (F)) (CAS No.: 14762- 94-8)		mg/kg	50	n.d.			-
(CI) (Chlorine (CI)) (CAS No.: 22537-15-1)	BS EN 14582: 2016 (With reference	mg/kg	50	240			-
(Br) (Bromine (Br)) (CAS No.: 10097-32-2)	to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	n.d.			-
(I) (lodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.			-
(PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.			-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.			-



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(Method)	(Unit)	MDL				(Limit)
(ivieti lou)	(Offit)		No.1	No.2	No.3	(LIIIIII)
	mg/kg	0.2	n.d.			
	mg/kg	0.2	n.d.			
	mg/kg	0.2	n.d.			
	mg/kg	0.2	n.d.			



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(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
				No.1	No.2	No.3	1
(Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	US EPA 3052: 1996 (With reference to US EPA 3052: 1996, analysis was performed by ICP- OES.)	mg/kg	2	n.d.			-
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (IEC 62321-5: 2013 application of modified	mg/kg	2		n.d.		100
(Pb) (Lead (Pb))	digestion by surface etching, analysis was performed by ICP- OES.)	mg/kg	2		34.6		1000
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (IEC 62321-4: 2013+AMD1: 2017 application of modified digestion by surface etching, analysis was performed by ICP- OES.)	mg/kg	2		n.d.		1000
(Cd) (Cadmium (Cd))	IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013,	mg/kg	2			n.d.	100
(Pb) (Lead (Pb))	analysis was performed by ICP-OES.)	mg/kg	2			n.d.	1000
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2			n.d.	1000



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	(Test Items)	(Method)	(Unit)	MDL		(Result)		(Limit)
					No.1	No.2	No.3	
(#2)		IEC 62321-7-1: 2015 - (With reference to IEC 62321-7- 1: 2015, analysis was performed by UV-VIS.)		0.1		n.d.	n.d.	-

(Test Items)	(Method)	(Unit)	MDL	(Result)	(Limit)
(Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	US EPA 3050B: 1996 (With reference to US EPA 3050B: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	-

(Note)	
	mg/kg = ppm 0.1wt% = 0.1% = 1000ppm	
) .	MDL = Method Detection Limit ()	
8.	n.d. = Not Detected (); MDL / Less tha	ın MDL
١.	"-" = Not Regulated ()	
	"" = Not Conducted ()	
	(#2) =	
	a. 0.13 μg/cm ²	. / The sample is positive for Cr(VI) if the Cr(VI)
	concentration is greater than 0.13 µg/cm ² . The s	ample coating is considered to contain Cr(VI).
	b. n.d. (0.10 µg/cm ²)	
	n.d. (concentration less than $0.10 \mu g/cm^2$). The co	
	c. $0.10 0.13 \mu g/cm^2$. / The result between 0.10 μg/cm² and
	0.13 µg/cm ² is considered to be inconclusive - ur	navoidable coating variations may influence the determination
,	II.A.C. C.0.00/2010	(w, O)
	ILA C-G 8:09/2019	(W=0)
	·	ated, the decision rule for conformity reporting is based on
	Binary Statement for Simple Acceptance Rule (w	=0) stated in ILAC-G8:09/2019. According to this rule, the
	judgement of conformity is based on the compa	ring test results with limits.)



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PAHs Remark

(AfPS): GSPAHs

AfPS (German commission for Product Safety): GS PAHs requirements

	1 (Category 1)	2 (Category 2)		3 (Cat	egory 3)
		1		1 2	
	(30)	30	()		30
	2009/48/EC 3		(Materials that	()(Mat	erials not
		are not in Category		covered by Catego	
•	intended to be placed in the			intended or foresee	
(Parameter)	mouth, or materials in toys	skin contact (> 30 s	,	term skin contact (30 seconds))
	(Directive 2009/48/EC) or	short-term repetitive	ve contact with		
		the skin)	Ι.		1.
	3	a	b.	a	b.
	long-term skin contact (> 30	14	(Other	14	(Other
	seconds))	(Use by	consumer	(Use by	consumer
		,	products)	,	products)
Naphthalene	< 1	< 2	<u>'</u>	< 10	Ü
Phenanthrene					
Anthracene	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Fluoranthene	< i Suiti	< 5 Sui ii	< 10 Suiti	< 20 Julii	< 50 Suiii
Pyrene					
Ber	< 0.2		< 0.5	< 0.5	
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	< 1





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PFAS Remark
PFAS PFAS PFAS PFAS PFAS PFAS
(PFAS PFAS)

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

(Group Name)	(Substance Name)	CAS No.
(Group Name)	(Perfluorooctane sulfonates) (PFOS)	1763-23-1
	(PFOS-K) Potassium perfluorooctanesulfonate (PFOS-K)	2795-39-3
	(PFOS-Li) Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
	$\begin{tabular}{ll} (PFOS-NH_4)\\ Perfluorooctanesulfonic acid, ammonium salt\\ (PFOS-NH_4)\\ \end{tabular}$	29081-56-9
PFOS, & (PFOS, its salts & derivatives)	$(PFOS-NH(OH)_2)$ Perfluorooctane sulfonate diethanolamine salt $(PFOS-NH(OH)_2)$	70225-14-8
	$(PFOS-N (C_2H_5)_4)\\ Perfluorooctanesulfonic\\ acid, tetraethylammonium salt\\ (PFOS-N(C_2H_5)_4)$	56773-42-3
	(PFOS-DDA) N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- heptadecafluorooctane-1-sulfonate (PFOS-DDA)	251099-16-8



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(Group Name)	(Substance Name)	CAS No.
PFOS, & (PFOS, its salts & derivatives)	$ (PFOS-N (C_4H_9)_4) \\ TetrabutylAmmonium \\ perfluorooctanesulfonate (PFOS-N(C_4H_9)_4) $	111873-33-7
	(POSF) Perfluorooctane sulfonyl fluoride (POSF)	307-35-7
	(PFO S-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	(PFO S-N a) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
PFOA, & (PFOA, its salts & derivatives)	(Perfluorooctanoic acid) (PFOA)	335-67-1
	(PFO A - N a) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	(PFO A - K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	(PFO A - A g) Silver perfluorooctanote (PFOA-Ag)	335-93-3
	(PFOA-F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	(A PFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	(PFO A - Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	(PFOA-Co) Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	(PFO A - Cs) Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	(PFO A - Cr(3 ⁺)) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, chromium(3+) (PFOA-Cr(3 ⁺))	68141-02-6



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33496-48-9

(EVERLIGHT ELECTRONICS CO., LTD.)
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Perfluorooctanoic Anhydride



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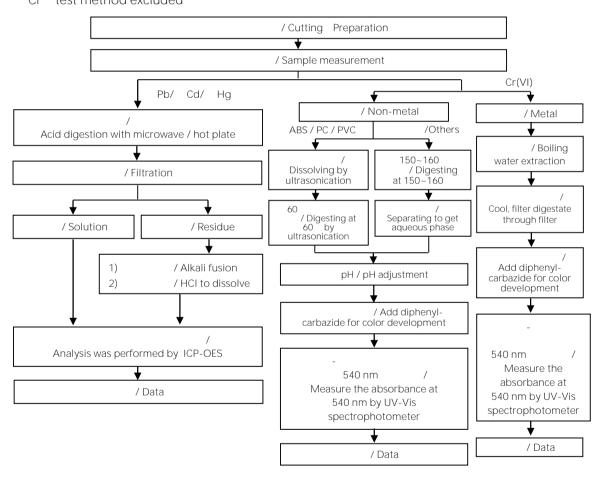
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-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Analytical flow chart of heavy metal

These samples were dissolved totally by pre-conditioning method according to below flow chart. Cr⁶⁺ test method excluded





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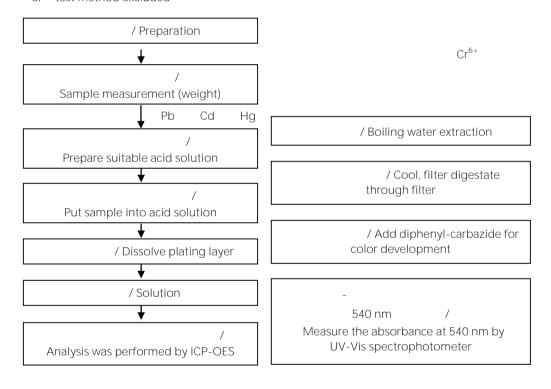
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

/ Flow chart of stripping method for metal analysis

/ The plating layer

of samples were dissolved totally by pre-conditioning method according to below flow chart. Cr^{6+} test method excluded





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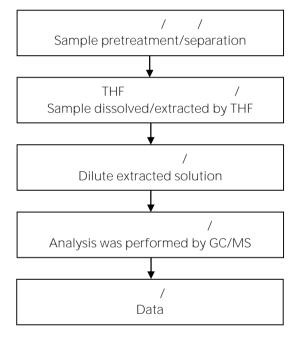
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8





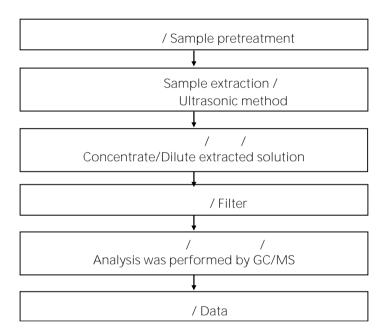
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/ Analytical flow chart - HBCDD





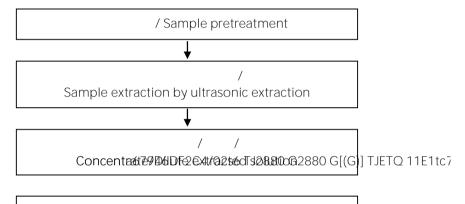
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(/ / /) / Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



/ /Analysis was performed by GC/MS or LC/MS oo



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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)

/
Sample pretreatment

() /
Sample extracted (ultrasonic extraction) by toluene solvent

Analysis was performed by GC/MS

/ Data



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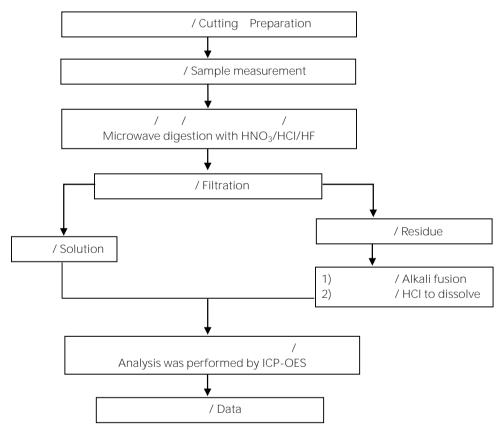
(EVERLIGHT ELECTRONICS CO., LTD.)

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() / Analytical flow chart of elements (Heavy metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

/Reference method US EPA 3051A US EPA 3052



* US EPA 3051A

/ US EPA 3051A method does not add HF.



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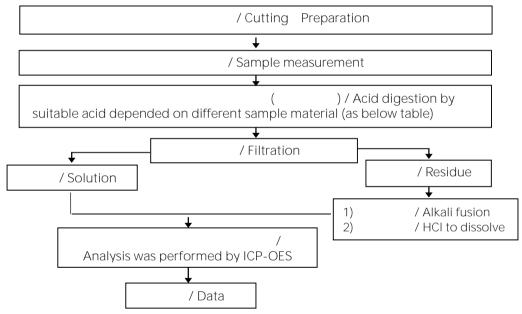
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ICP-OES

(Flow chart of digestion for the elements analysis performed by ICP-OES)

/ These samples were dissolved totally by

pre-conditioning method according to below flow chart.



, , , / Steel, copper, aluminum, solder	, , , , Aqua regia, $\rm HNO_3$, $\rm HCI$, $\rm HF$, $\rm H_2O_2$	
/ Glass	, / HNO ₃ ,HF	
, , , / Gold, platinum, palladium, ceramic	/ Aqua regia	
/ Silver	/ HNO ₃	
/ Plastic	, , , / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI	
/ Others	/ Added appropriate reagent to total digestion	



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(The tested sample / part is marked by an arrow if it's shown on the photo.)

ETR24505688 NO.1







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(End of Report) **