

No.: ETR20B03947M01 Date: 30-Nov-2020

SHINKO ELECTRIC INDUSTRIES CO., LTD.
80 OSHIMADA-MACHI, NAGANO-SHI, 381-2287 JAPAN

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

Sample Submitted By : SHINKO ELECTRIC INDUSTRIES CO., LTD.

Sample Name : C7025+Aq

Sample Receiving Date : 23-Nov-2020

Testing Period : 23-Nov-2020 to 30-Nov-2020

Test Requested : (1) 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) Please refer to next pages for the other item(s).

Test Results : Please refer to following pages.

Conclusion : (1) 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.

Troy Chang Manager Te h SGS
Signed for and on behalf of SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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PIN CODE: FB01447F

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TEST PART DESCRIPTION

No.1 : COPPER/SILVER COLORED METAL (INCLUDING THE PLATING LAYER)

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
C		(1		No.1	100
Cadmium (Cd) (CAS No.: 7440-43- 9)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb) (CAS No.: 7439-92-1)		mg/kg	2	n.d.	1000
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Chromium VI (CrVI) (CAS No.: 18540-29-9) (#2)	With reference to IEC 62321-7-1: 2015, analysis was performed by UV-VIS.	μg/cm²	0.1	n.d.	-
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl	1	mg/kg	5	n.d.	-
Tribromobiphenyl	1	mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl	With reference to IEC 62321-6:	mg/kg	5	n.d.	-
Sum of PBBs	2015, analysis was performed by	mg/kg	-	n.d.	1000
Monobromodiphenyl ether	GC/MS.	mg/kg	5	n.d.	-
Dibromodiphenyl ether	GC/MS.	mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	-
Sum of PBDEs		mg/kg	-	n.d.	1000

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Test Item(s)	Method	Unit	MDL	Result No.1	Limit
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	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)	With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
lodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016, analysis was performed by IC.	mg/kg	50	n.d.	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2013, analysis was performed by FT-IR and Flame Test.	**	-	Negative	-
Antimony (Sb) (CAS No.: 7440-36- 0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Arsenic (As) (CAS No.: 7440-38-2)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	1000

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Di-(2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8:	mg/kg	50	n.d.	1000
(CAS No.: 117-81-7)	2017, analysis was performed by				
	GC/MS.				1000
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)	With reference to IEC 62321-8:	mg/kg	50	n.d.	1000
,	2017, analysis was performed by GC/MS.				
Diisodecyl phthalate (DIDP) (CAS	With reference to IEC 62321-8:	mg/kg	50	n.d.	-
No.: 26761-40-0, 68515-49-1)	2017, analysis was performed by GC/MS.				
Diisononyl phthalate (DINP) (CAS	With reference to IEC 62321-8:	mg/kg	50	n.d.	-
No.: 28553-12-0, 68515-48-0)	2017, analysis was performed by GC/MS.				
Di-n-octyl phthalate (DNOP) (CAS	With reference to IEC 62321-8:	mg/kg	50	n.d.	-
No.: 117-84-0)	2017, analysis was performed by GC/MS.				
Di-n-pentyl phthalate (DNPP) (CAS	With reference to IEC 62321-8:	mg/kg	50	n.d.	-
No.: 131-18-0)	2017, analysis was performed by GC/MS.				
Diisopentyl phthalate (DIPP) (CAS	With reference to IEC 62321-8:	mg/kg	50	n.d.	-
No.: 605-50-5)	2017, analysis was performed by GC/MS.				
Di-n-hexyl phthalate (CAS No.: 84-	With reference to IEC 62321-8:	mg/kg	50	n.d.	-
75-3)	2017, analysis was performed by GC/MS.				
1,2-Benzenedicarboxylic acid, di-	With reference to IEC 62321-8:	mg/kg	50	n.d.	-
C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No.: 71888-89-6)	2017, analysis was performed by GC/MS.				
1,2-Benzenedicarboxylic acid, di-	With reference to IEC 62321-8:	mg/kg	50	n.d.	-
C7-11-branched and linear alkyl	2017, analysis was performed by				
esters (DHNUP) (CAS No.: 68515- 42-4)	GC/MS.				
Bis(2-methoxyethyl) phthalate	With reference to IEC 62321-8:	mg/kg	50	n.d.	-
(DMEP) (CAS No.: 117-82-8)	2017, analysis was performed by GC/MS.				

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321: 2008, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Polychlorinated biphenyls (PCBs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.	-
Polychlorinated naphthalene (PCNs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Polychlorinated terphenyls (PCTs)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	0.5	n.d.	-
Short Chain Chlorinated Paraffins(C10-C13) (SCCP) (CAS No.: 85535-84-8)	With reference to US EPA 3550C: 2007, analysis was performed by GC/MS.	mg/kg	100	n.d.	-
Tributyl tin (TBT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Triphenyl tin (TPhT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Bis(tributyltin) oxide (TBTO) (CAS No.: 56-35-9)	Calculated from the result of Tributyl Tin (TBT).	mg/kg	0.03 🛦	n.d.	-
Dibutyl tin (DBT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-
Dioctyl tin (DOT)	With reference to ISO 17353: 2004, analysis was performed by GC/FPD.	mg/kg	0.03	n.d.	-

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Note:

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. **= Qualitative analysis (No Unit)
- 6. Negative = Undetectable; Positive = Detectable
- 7. PFOS and its salts including:

CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.

- 8. PFOA and its salts including:
 - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 9. (#2) =
 - a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 μ g/cm². The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is n.d. (concentration less than 0.10 μ g/cm²). The coating is considered a non-Cr(VI) based coating
 - c. The result between 0.10 μ g/cm² and 0.13 μ g/cm² is considered to be inconclusive unavoidable coating variations may influence the determination.
- 10. ▲ : The MDL was evaluated for element / tested substance.

Conversion Formula : $AX = A \times F$

AX	Α	F
Bis(tributyltin)oxide (TBTO)	Tributyl Tin	1.024

Parameter Conversion Table: https://eecloud.sgs.com/Region_TW/DocDownload.aspx#otherDoc

- 11. The statement of compliance conformity is based on comparison of testing results and limits.
- 12. This is the additional test report of ETR20B03947.

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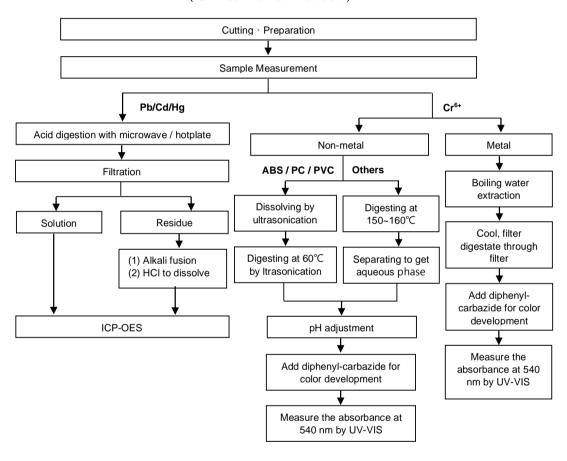
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Analytical flow chart of Heavy Metal

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

(Cr6+ test method excluded)



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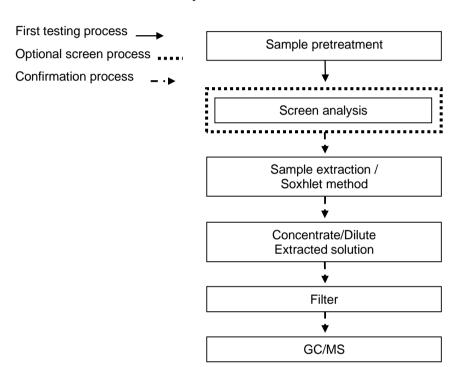
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Analytical flow chart - PBBs / PBDEs



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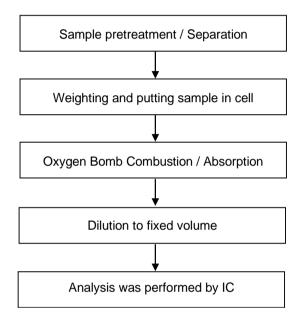
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Analytical flow chart - Halogen



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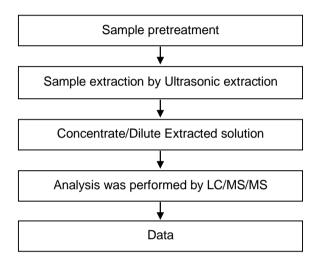
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Analytical flow chart - PFOA/PFOS



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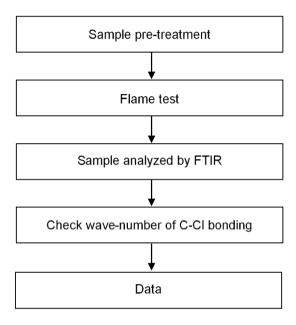
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Analysis flow chart - PVC



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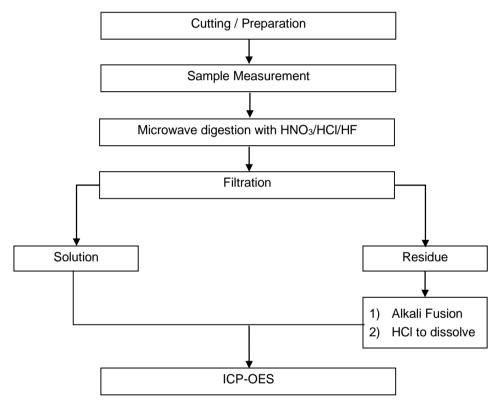
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Analytical flow chart of Heavy Metal

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

【Reference method: US EPA 3051 \ US EPA 3052】



* US EPA 3051 method does not add HF.

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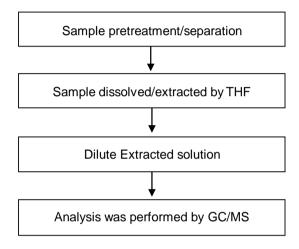


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Analytical flow chart - Phthalate

[Test method: IEC 62321-8]



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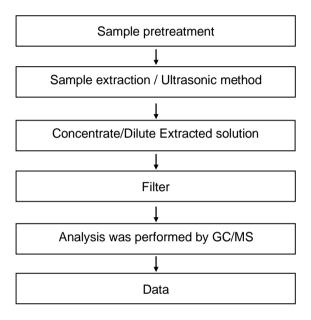
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Analytical flow chart - HBCDD



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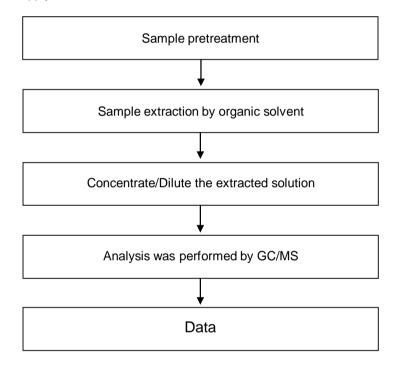


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Analytical flow chart

* Apply to: PCBs, PCNs, PCTs, Mirex, Chlorinated Paraffins, DBBT



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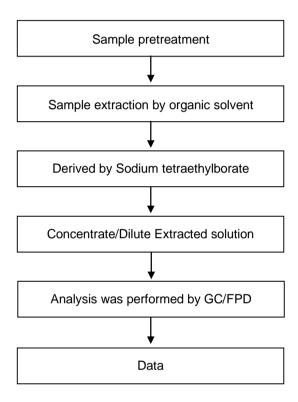
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Analytical flow chart - Organic-Tin



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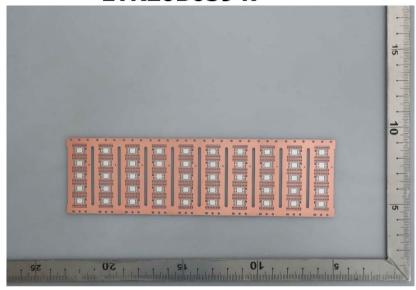


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* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR20B03947



** End of Report **

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