

## Verification Report

No. CANEC2010252801

Date: 30 Jun 2020

FOSHAN ALPICOOL ELECTRIC APPLIANCE CO., LTD

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NO.9 HUANZHEN EAST ROAD BEIJIAO TOWN, SHUNDE DISTRICT, FOSHAN CITY, GUANGDONG, CHINA

**This report is to supersede Verification Report No.CANEC2001249301 Date: 20 Jan 2020.**

**The report CANEC2001249301 is to supersede Verification Report No.CANEC1925705401 Date: 26 Dec 2019.**

**The report CANEC1925705401 is to supersede Verification Report No.CANEC1921401301 Date: 16 Dec 2019.**

Sample Name : Refrigerator (Without compressor)  
SGS Job No. : CP20-031611 - GZ  
Tested Basic Model No. T60, C15, C75, BCD125, CX30  
(P.O.No) :  
Client Ref. Info. : See remark(6)  
Date of Sample Received : 16 Dec 2019  
Verification Period : 16 Dec 2019 - 30 Jun 2020  
Verification Requested : With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.  
Verification Method : Please refer to next page(s).  
Verification Result : Please refer to next page(s).  
Verification Conclusion : Based on the verification results of semi-part samples assigned by the client, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

*Tyler Zhang*

Tyler Zhang  
Approved Signatory



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### Verification Method :

1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
  - (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
  - (2) Wet chemical test method
    - a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES
    - b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OES
    - c. With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES
    - d. With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017, determination of Hexavalent chromium by Colorimetric method using UV-Vis.
    - e. With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
3. With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.



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Remark :

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
- (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (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.

(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) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration exceeds the below warning value (unit: mg/kg)

Compound	Polymer
DBP	BL $\leq$ 600 < X
BBP	BL $\leq$ 600 < X
DEHP	BL $\leq$ 600 < X
DIBP	BL $\leq$ 600 < X

- (3) (a) mg/kg = 0.0001%, MDL=Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, - = Without BOM.

(b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100



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The MDL for single compound of PBBs and PBDEs is 100 mg/kg,  
MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg,  
MDL of Cr(VI) for metal sample is 0.10µg/cm<sup>2</sup>.

(c) ▼ =Metal sample

- a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>.  
The sample coating is considered to contain CrVI
- b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>).  
The coating is considered a non-CrVI based coating
- c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive  
- unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

IEC 62321 series is equivalent to EN 62321 series

[https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:125863\\_7.25](https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:125863_7.25)



(4) ▲=According to the declaration from the client, Lead (Pb) in No.84, No.140, No.201, No.326 are exempted by EU RoHS directive 2011/65/EU based on [ANNEX III 7(c)-II]: 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.

(5) #=According to the declaration from applicant, the materials of No.264-C, No.378-C are the same as those in No.172-C, and its results for support the results of No.264-C, No.378-C. The applicant will take the responsibility of all discrepancy and risk.

(6) According to declaration from client, the materials in models B15, FC15, C20, B20, G22, C22, B22, MK18, MK25, MK35, MK18N, MK25N, C25, A25, C30, A30, C40, A40, C50, A50, A75, CX40, CX50, NX42, NX52, NX62, CF35, CF45, CF55, NCF35, NCF45, NCF55, T36, T50, TW75D, TW95D, E65, E75D, BD45, BD60, BD75, BCD80, BCD100, C15-S, C75-S, T60-S, BCD125-S, CX30-S, B15-S, FC15-S, C20-S, B20-S, G22-S, C22-S, B22-S, MK18-S, MK25-S, MK35-S, MK18N-S, MK25N-S, C25-S, A25-S, C30-S, A30-S, C40-S, A40-S, C50-S, A50-S, A75-S, CX40-S, CX50-S, NX42-S, NX52-S, NX62-S, CF35-S, CF45-S, CF55-S, NCF35-S, NCF45-S, NCF55-S, T36-S, T50-S, TW75D-S, TW95D-S, E65-S, E75D-S, BD45-S, BD60-S, BD75-S, BCD80-S, BCD100-S, EP8, P8, ICE16, NXA42, NXA52, NXA62, TW35, TW45, TW55, TW115, BCD35, BCD35A, BCD35W, BCD35AW, E60, E75, ECX30, ECX40, ECX50, ENX42, ENX52, ENX62, T15, K18, K25, TWW75, TWW95, TWW35, TWW45, TWW55, TW75, TW95, CF8, Mini9, AR55, G15, D30, AL42, ARC35, ARC22, BD45, BD85, BD108, BD135, C9, C10, C12, CR65, CR50 are the same as those in models T60, C15, C75, BCD125, CX30.

This report updates Client Ref Info.



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