

## Verification Report

No.: CQTC1100937/CHEM

Date: MAR 25, 2011

Page 1 of 5

TOEFLEX COOLING & HEATING LTD.

618KELIN WEST RD., HUAYIN INDUSTRIAL PARK, HAI KE YUAN, WENJIANG DISTRICT, CHENGDU611130, CHINA

Sample Description : Condenser  
SGS Ref No. : 13022796-2.1  
Test Model No. : TF CONDENSER  
Verification Period : Mar 21, 2011 TO Mar 25, 2011

Verification Requested : With reference to RoHS Directive 2002/95/EC, and its amendment directives

Verification Method

1. Review was performed for the samples disjointed from the submitted articles and the related test reports submitted by the Applicant
2. Tests was performed for the samples indicated by the photos in the report with test methods reference to IEC 62321:2008: Procedures for the Determination of Levels of Six Regulated substances in Electrotechnical Products  
(1) Screening by XRF Spectroscopy

Verification Results : Please refer to next page

Verification Conclusion : Based on the review of previous reports and verification results of the submitted samples, the results **comply with** the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of  
SGS-CSTC Ltd.



Rain Qiao  
Approved Signatory

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**Details on Verification**

Part No.	Part Name	Restricted Substances	Results of EDXRF <sup>(1)</sup>	No. of Related Test Report	Results in Related Test Report(mg/kg)	Result of Wet Chemical Testing <sup>(2)</sup> (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
1	Gray coating	Cd	BL	\	\	\	Comply	Mar 21, 2011
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr <sup>6+</sup>	BL		\	\	Comply	
		PBBs	BL		\	\	Comply	
		PBDEs			\	\	Comply	
2	Silvery metal framework	Cd	BL	CQTC1004553/CHEM Part No.1	\	\	Comply	Mar 21, 2011
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr <sup>6+</sup>	IN		Negative	\	Comply	
		PBBs	---		\	\	Comply	
		PBDEs			\	\	Comply	
3	Copper-colored metal tube	Cd	BL	CQTC1004553/CHEM Part No.3	\	\	Comply	Mar 21, 2011
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr <sup>6+</sup>	BL		\	\	Comply	
		PBBs	---		\	\	Comply	
		PBDEs			\	\	Comply	
4	Dk-gray metal solder material(on No.3)	Cd	BL	CQTC1004553/CHEM Part No.4	\	\	Comply	Mar 21, 2011
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr <sup>6+</sup>	BL		\	\	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	
5	Silvery metal aluminum foil	Cd	BL	CQTC1004553/CHEM Part No.2	\	\	Comply	Mar 21, 2011
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr <sup>6+</sup>	BL		\	\	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	

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**Remark**

- (1) (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 (for Cd, Pb, Hg), UV-VIS (for CrVI) and GCMSD (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321:2008 (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) OL = Over Limit, BL = Below Limit, IN = Inconclusive, LOD = Limit of Detection

(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) (a) mg/kg = ppm=0.0001%, N.D. = not detected (<MDL), --- = not conducted, \ = not available.
- (b) Unit and Method Detection Limit (MDL) in wet chemical test

Test Items	Pb	Cd	Hg
Units	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr<sup>6+</sup> for polymer & composite sample is 2 mg/kg.

- (c) According to IEC 62321:2008, result on Cr<sup>6+</sup> for metal sample is shown as Positive/Negative. Negative = Absence of Cr<sup>6+</sup> coating, Positive = Presence of Cr<sup>6+</sup> coating.  
Storage conditions and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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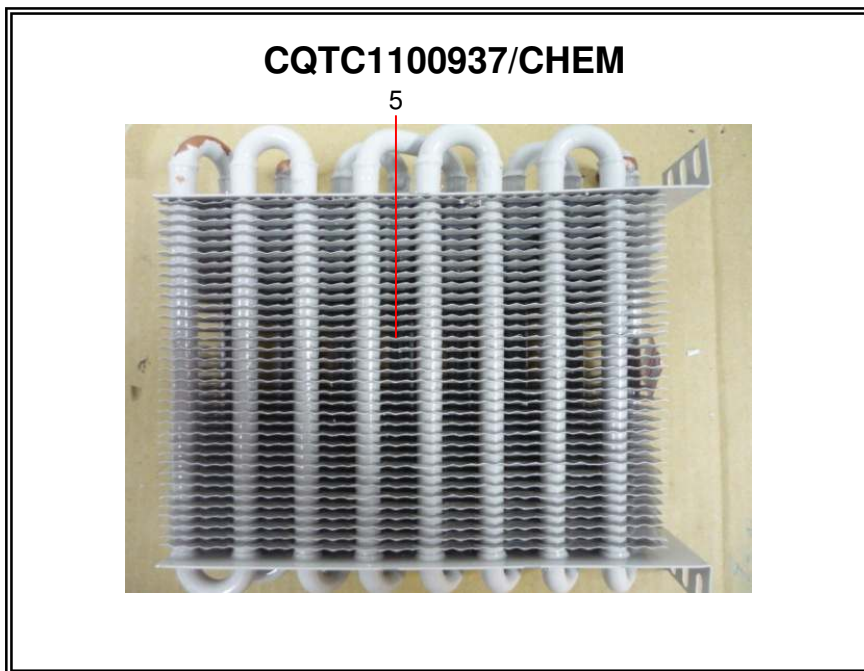
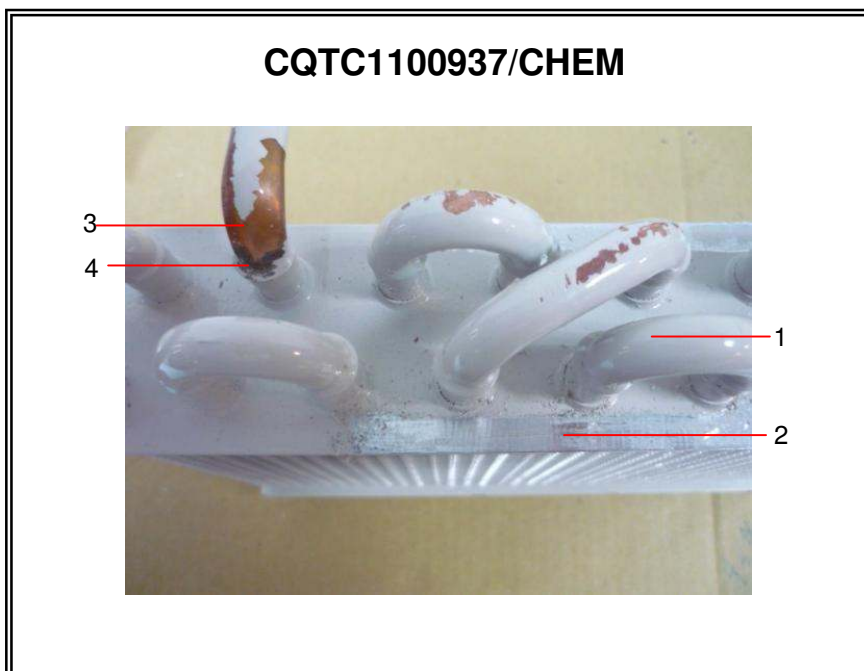
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(SGS authenticate the photo on original report only)

\*\*\* End of Report \*\*\*

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