



Verification Report (supplementary)

No.: GZ0807126865/CHEM

Date: JUL 30, 2008

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BYTECOM FANNER B.V. / SPIRE COOLERS CORP
RONDVEN 38, 6026PX MAARHEEZE THE NETHERLANDS

Sample Description : FAN

SGS Ref No. : SZ11163067-4.4

Model No. (P.O No.) : SP060

Verification Period : JUL 15, 2008 TO JUL 30, 2008

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 62321/2nd CDV (111/95/CDV): Procedures for the Determination of Levels of Six Regulated substances in Electrotechnical Products
 - (1) Screening by XRF Spectroscopy
 - (2) Wet Chemical Test Method
 - a. Determination of PBBs and PBDEs by GC/MS.

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.

Remark : According to declaration from client, the materials of other parts in model SP060 are the same as those in model SF090 (data and photos are shown on report GZ0803038947A/CHEM)

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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Details on Verification

Part No.	Part Name	Restricted Substances	Results of EDXRF ⁽¹⁾	No. of Related Test Report	Results in Related Test Report(mg/kg)	Result of Wet Chemical Testing ⁽²⁾ (mg/kg)	Conclusion on RoHS	Sample Submitted / Resubmitted Date
1	Black plastic frame	Cd	BL	\	\	\	Comply	Jun 19, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	IN		\	N.D.	Comply	
		PBDEs ^{##}			\	Mono-Nona: N.D. Deca:14	Comply	
2	Black plastic (impeller)	Cd	BL	\	\	\	Comply	Jun 19, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	IN		\	N.D.	Comply	
		PBDEs ^{##}			\	Mono-Nona: N.D. Deca:57	Comply	
3	Silvery adhesive plastic w/ multicolor printing (label on No.2)	Cd	BL	\	\	\	Comply	Jun 19, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	BL		\	\	Comply	
		PBDEs ^{##}			\	\	Comply	
4	Black plastic w/ white printing (heat shrinkable tube)	Cd	BL	\	\	\	Comply	Jun 19, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	BL		\	\	Comply	
		PBDEs ^{##}			\	\	Comply	
5	White fibre glass tube	Cd	BL	\	\	\	Comply	Jun 19, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	BL		\	\	Comply	
		PBDEs ^{##}			\	\	Comply	

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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 Cr⁶⁺.
- (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 62321/2nd CDV (111/95/CDV) (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 Cr⁶⁺ for polymer & composite sample is 2 mg/kg.

- (c) According to IEC 62321/2nd CDV (111/95/CDV), result on Cr⁶⁺ for metal sample is shown as Positive/Negative. Negative = Absence of Cr⁶⁺ coating, Positive = Presence of Cr⁶⁺ coating
- (d) ## = The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008.

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Photo for original product



Photo for supplementary product



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(SGS authenticate the photo on original report only)

*** End of Report ***

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