

Verification Report (supplementary)

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BYTECOM FANNER B.V.
RONDVEN 38, 6026PX MAARHEEZE THE NETHERLANDS

Sample Description	: COOLER
SGS Ref No.	: SZ10941340-3.3
Item No.	: COOLER
Verification Period	: APR 08, 2008 TO APR 23, 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, Ed.1 111/95/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 Hexavalent Chromium by Colorimetric Method.
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 item COOLER are the same as those in item SF090 (data and photos are shown on report GZ0803038947/CHEM)

Signed for and on behalf of
SGS-CSTC Ltd.



Huang Fang, Sunny
Sr. Engineer

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Details on Verification

Details of 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	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	BL		\	\	Comply	
		PBDEs			\	\	Comply	
2	Lt-blue translucent plastic (impeller)	Cd	BL	\	\	\	Comply	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	BL		\	\	Comply	
		PBDEs			\	\	Comply	
3	Silvery adhesive plastic w/ red & black printing (label on No.2)	Cd	BL	\	\	\	Comply	Apr 08, 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	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	BL		\	\	Comply	
		PBDEs			\	\	Comply	
5	Silvery metal screw (on No.1)	Cd	BL	\	\	\	Comply	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	
6	Silvery metal part (heat sink sheet)	Cd	BL	\	\	\	Comply	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	
7	Silvery metal sheet (clip)	Cd	BL	\	\	\	Comply	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	
8	Silvery metal sheet (connected w/ No.7)	Cd	BL	\	\	\	Comply	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	

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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
9	Silvery metal rivet (on No.8)	Cd	BL	\	\	\	Comply	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	IN		\	Negative	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	
10	Silvery metal sheet (connected w/ No.8)	Cd	BL	\	\	\	Comply	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	---		\	\	\	
		PBDEs			\	\	\	
11	Transparent adhesive plastic w/ blue printing (label on No.1)	Cd	BL	\	\	\	Comply	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	BL		\	\	Comply	
		PBBs	BL		\	\	Comply	
		PBDEs			\	\	Comply	
12	Copper-colored metal part (on No.1)	Cd	BL	\	\	\	Comply	Apr 08, 2008
		Pb	BL		\	\	Comply	
		Hg	BL		\	\	Comply	
		Cr ⁶⁺	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^{6+} .
 (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr^{6+}) and GCMSD (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321, Ed.1 111/95/CDV (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$\text{BL} \leq (70-3\sigma) < X < (130+3\sigma) \leq \text{OL}$	$\text{BL} \leq (70-3\sigma) < X < (130+3\sigma) \leq \text{OL}$	$\text{LOD} < X < (150+3\sigma) \leq \text{OL}$
Pb	$\text{BL} \leq (700-3\sigma) < X < (1300+3\sigma) \leq \text{OL}$	$\text{BL} \leq (700-3\sigma) < X < (1300+3\sigma) \leq \text{OL}$	$\text{BL} \leq (500-3\sigma) < X < (1500+3\sigma) \leq \text{OL}$
Hg	$\text{BL} \leq (700-3\sigma) < X < (1300+3\sigma) \leq \text{OL}$	$\text{BL} \leq (700-3\sigma) < X < (1300+3\sigma) \leq \text{OL}$	$\text{BL} \leq (500-3\sigma) < X < (1500+3\sigma) \leq \text{OL}$
Br	$\text{BL} \leq (300-3\sigma) < X$	---	$\text{BL} \leq (250-3\sigma) < X$
Cr	$\text{BL} \leq (700-3\sigma) < X$	$\text{BL} \leq (700-3\sigma) < X$	$\text{BL} \leq (500-3\sigma) < X$

(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

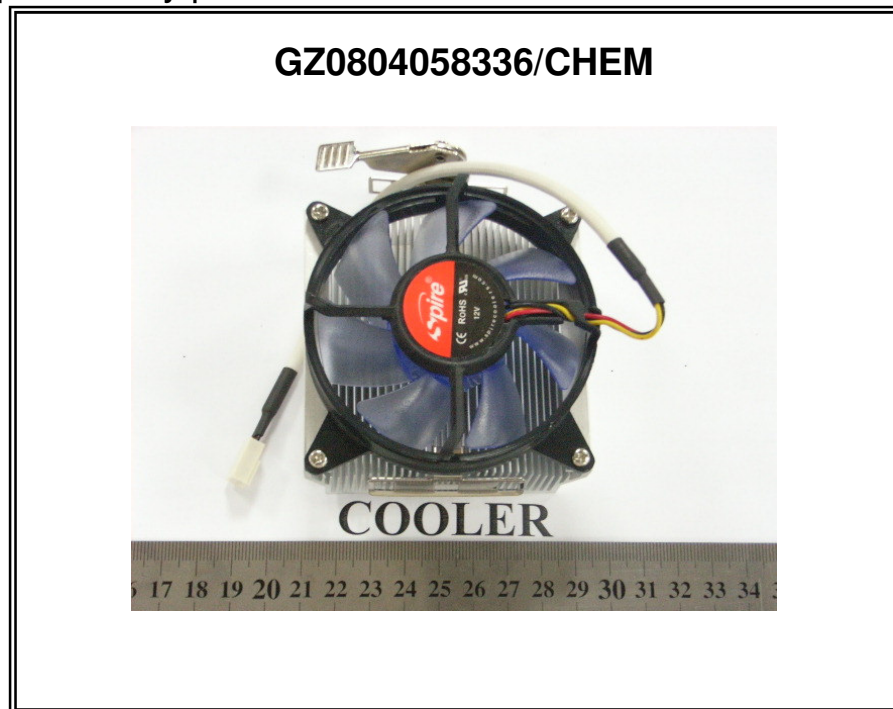
The MDL for single compound of PBBs & PBDEs is 5 mg/kg and MDL of Cr^{6+} for polymer & composite sample is 2 mg/kg.

- (c) According to IEC 62321, Ed.1 111/95/CDV, result on Cr^{6+} for metal sample is shown as Positive/Negative.
 Negative = Absence of Cr^{6+} coating, Positive = Presence of Cr^{6+} coating
 (d) According to 2005/717/EC, DecaBDE is exempt.

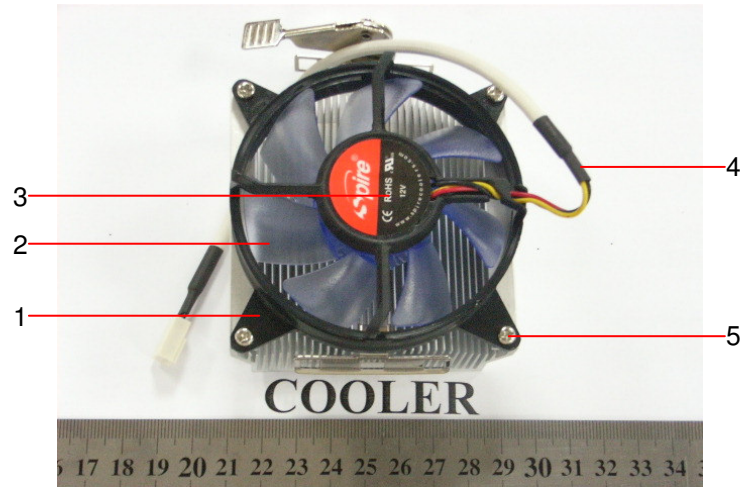
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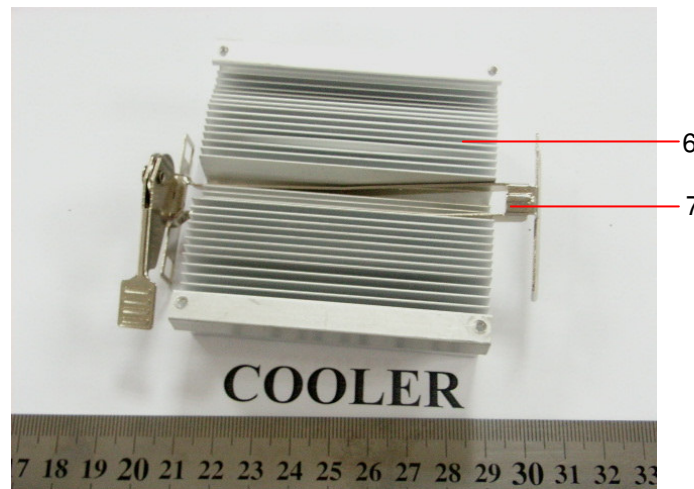
Photo for supplementary product



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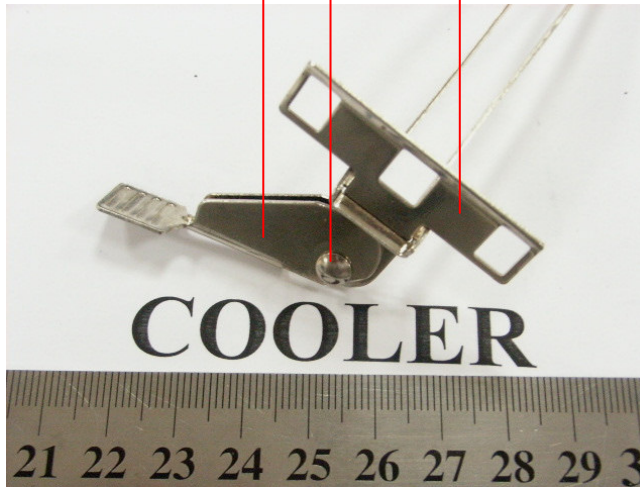


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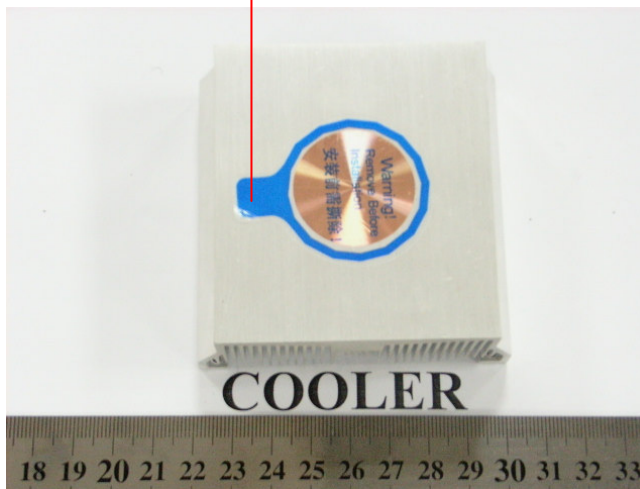
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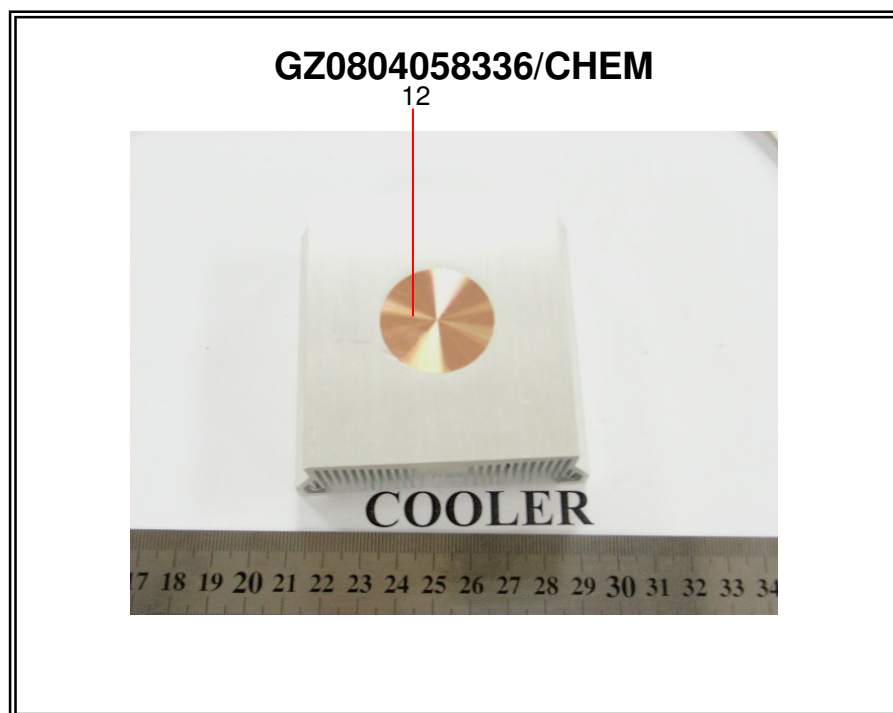
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(SGS authenticate the photo on original report only)

*** End of Report ***