



**BUREAU  
VERITAS**

# TEST REPORT

LAB NO. : (6608)137-0389  
DATE : May 22, 2008  
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**APPLICANT** : **BOURNS (XIAMEN) LTD**  
4/5 F, Guangyao Building Torch Hi-Tech, Industrial Development  
Zone Xiamen

申请人公司名称 : 柏恩氏(厦门)电子有限公司  
厦门火炬高技术产业开发区光耀楼 4/5 楼

**DATE OF SUBMISSION** : May 16, 2008  
样品收取日期 : 2008年5月16日

**TEST PERIOD** : May 16, 2008 to May 22, 2008  
所需工作周期 : 2008年5月16日至2008年5月22日

**NO. OF WORKING DAY(S)** : 5  
所需工作日 : 5

**SAMPLE DESCRIPTION** : SM family(silvery metalwith black plastic)  
样品描述 : Manufacturer name: BXL

## SUMMARY OF TEST RESULTS 测试结果摘要

TEST REQUESTED 测试项目	REMARK 备注
Restriction of Hazardous Substances Directive (RoHS), 2002/95/EC 有关欧洲针对电子产品的指令(电子电器禁用某些有害物质指 令), 2002/95/EC	See results in page 3-4 结果见第3-4页

### REMARK

#### 备注

If there are questions or concerns on this report, please contact the following persons:

若有任何疑问或咨询, 可通过下述联络方式与我们联络

General enquiry and invoicing

其他问题

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Technical enquiry

技术问题

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**BUREAU VERITAS**

**CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)**

法国国际检验局 - 上海中美商品检测有限公司

PREPARED BY : \_\_\_\_\_ Mary

制定:

*Kevin Guo*  
for 郭晔轩 Kevin Guo

化学实验室技术经理

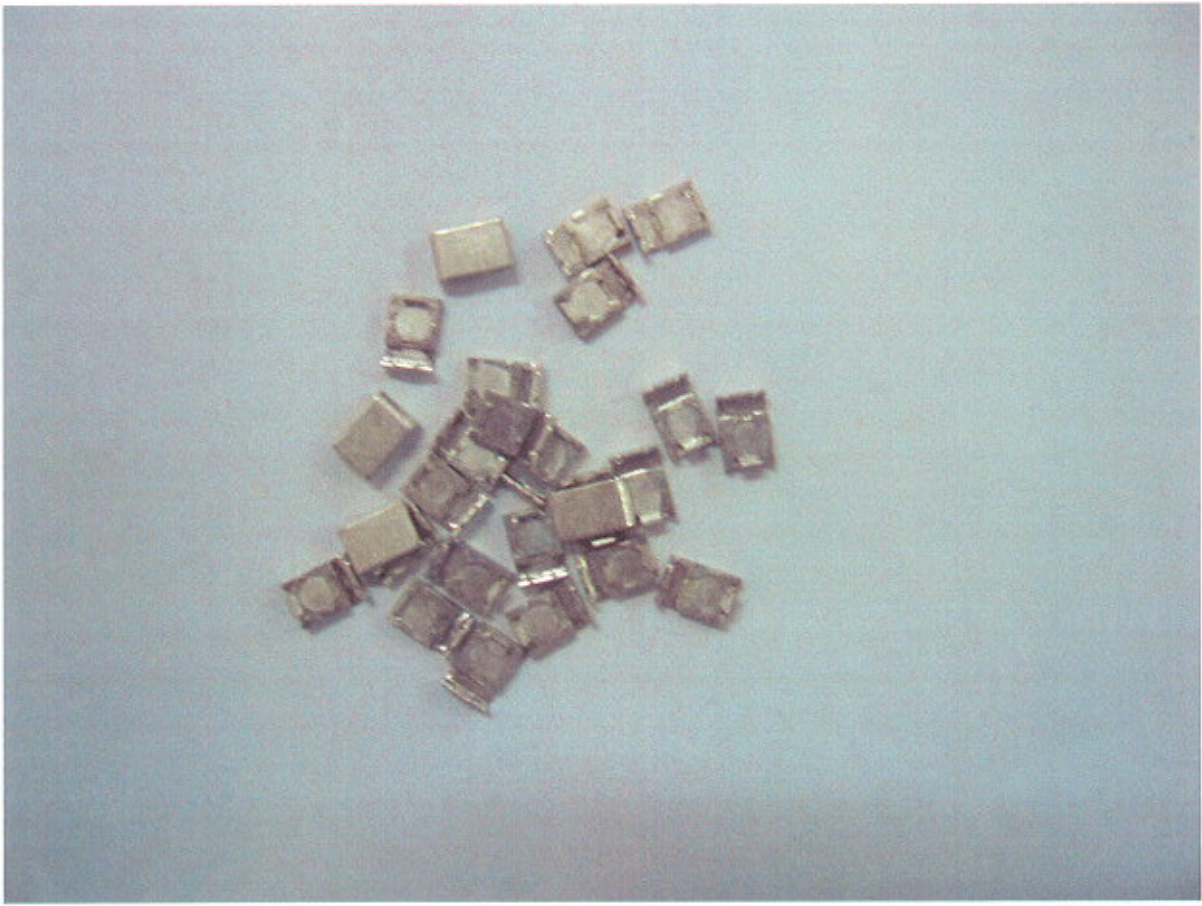
CHEMICAL LABORATORY TECHNOLOGY MANAGER

RW/2008



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Photo of the Submitted Sample





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**TEST RESULT**  
**测试结果**

**Restriction of Hazardous Substances Directive (RoHS), 2002/95/EC**  
有关欧洲针对电子产品的指令（电子电器禁用某些有害物质指令），2002/95/EC

Compounds 化合物	Tested item (mg/kg) 测试项目(mg/kg)
	1
Lead (Pb) 铅(Pb)	57.1
Mercury (Hg) 汞(Hg)	ND
Cadmium (Cd) 镉(Cd)	ND
Chromium VI (Cr VI) 六价铬(Cr (VI))	ND
Polybrominated Biphenyls (PBBs) : 多溴联苯(PBBs)	
Bromobiphenyls 一溴联苯	ND
Dibromobiphenyls 二溴联苯	ND
Tribromobiphenyls 三溴联苯	ND
Tetrabromobiphenyls 四溴联苯	ND
Pentabromobiphenyls 五溴联苯	ND
Hexabromobiphenyls 六溴联苯	ND
Heptabromobiphenyls 七溴联苯	ND
Octabromobiphenyls 八溴联苯	ND
Nonabromobiphenyls 九溴联苯	ND
Decabromobiphenyl 十溴联苯	ND
Sum of PBBs 多溴联苯总和	ND





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**TEST RESULT**  
测试结果

**Restriction of Hazardous Substances Directive (RoHS), 2002/95/EC**

有关欧洲针对电子产品的指令（电子电器禁用某些有害物质指令），2002/95/EC

Compounds 化合物	Tested item (mg/kg) 测试项目(mg/kg)
	1
Polybrominated Diphenyl Ethers (PBDEs) : 多溴联苯醚(PBDEs) :	
Bromodiphenyl ethers 一溴联苯醚	ND
Dibromodiphenyl ethers 二溴联苯醚	ND
Tribromodiphenyl ethers 三溴联苯醚	ND
Tetrabromodiphenyl ethers 四溴联苯醚	ND
Pentabromodiphenyl ethers 五溴联苯醚	ND
Hexabromodiphenyl ethers 六溴联苯醚	ND
Heptabromodiphenyl ethers 七溴联苯醚	ND
Octabromodiphenyl ethers 八溴联苯醚	ND
Nonabromodiphenyl ethers 九溴联苯醚	ND
Decabromodiphenyl ether 十溴联苯醚	ND
Sum of PBDEs 多溴联苯醚总和	ND

Tested Item 1: 测试项目 1:	SM family(silvery metalwith black plastic)
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ANNEX

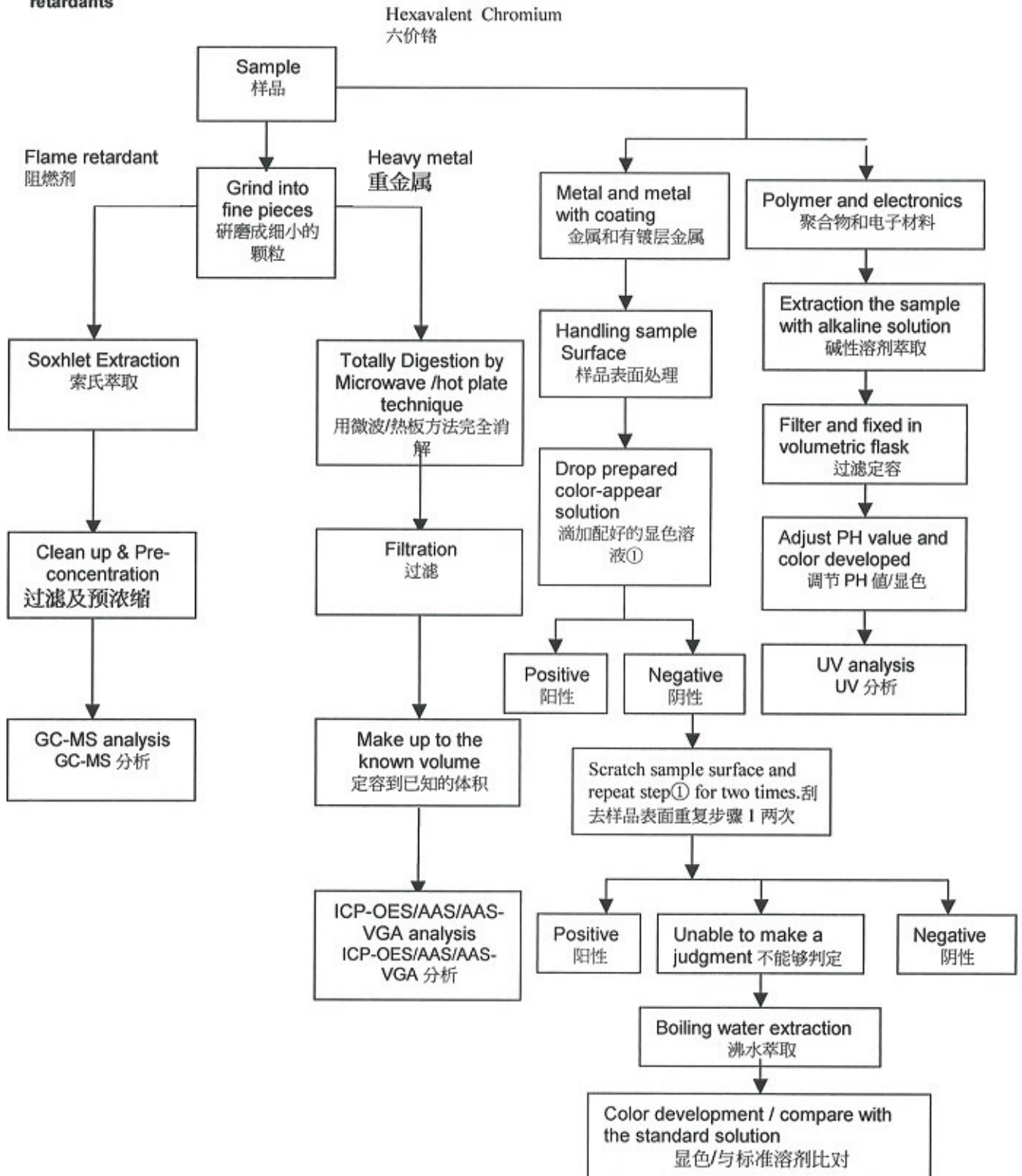
List of Exempted Specific Applications in RoHS Directive. (Will be updated according to the RoHS directive)

1. Mercury in compact fluorescent lamps not exceeding 5 mg per lamp.
2. Mercury in straight fluorescent lamps for general purposes not exceeding:
  - halophosphate 10 mg
  - triphosphate with normal lifetime 5 mg
  - triphosphate with long lifetime 8 mg.
3. Mercury in straight fluorescent lamps for special purposes.
4. Mercury in other lamps not specifically mentioned in this Annex.
5. Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.
6. Lead as an alloying element in steel containing up to 0,35 % lead by weight, aluminium containing up to 0,4 % lead by weight and as a copper alloy containing up to 4 % lead by weight.
7. -Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead),
  - Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications,
  - lead in electronic ceramic parts (e.g. piezoelectric devices).(2005/747/EC)
8. Cadmium and its compounds in electrical contacts and cadmium plating except for applications banned under Directive 91/338/EEC amending Directive 76/769/EEC relating to restrictions on the marketing and use of certain dangerous substances and preparations(2005/747/EC)
9. Hexavalent chromium as an anti-corrosion of the carbon steel cooling system in absorption refrigerators.
  - 9a. DecaBDE in polymeric applications(2005/717/EC)
  - 9b. Lead in lead-bronze bearing shells and bushes(2005/717/EC)
10. Within the procedure referred to in Article 7(2), the Commission shall evaluate the applications for:
  - Deca BDE,
  - Mercury in straight fluorescent lamps for special purposes,
  - Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission as well as network management for telecommunications (with a view to setting a specific time limit for this exemption), and
  - light bulbs,
11. Lead used in compliant pin connector systems(2005/747/EC)
12. Lead as a coating material for the thermal conduction module c-ring(2005/747/EC)
13. Lead and cadmium in optical and filter glass(2005/747/EC)
14. Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight(2005/747/EC)
15. Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages(2005/747/EC)
16. Lead in linear incandescent lamps with silicate coated tubes(2006/310/EC)
17. Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications(2006/310/EC)
18. Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi2O5:Pb) as well as when used as speciality lamps for diazo-printing reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba)2MgSi2O7:Pb). (2006/310/EC)
19. Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact Energy Saving Lamps (ESL). (2006/310/EC)
20. Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCD). (2006/310/EC)
21. Lead and cadmium in printing inks for the application of enamels on borosilicate glass(2006/691/EC)
22. Lead as impurity in RIG (rare earth iron garnet) Faraday rotators used for fibre optic communications systems. (2006/691/EC)
23. Lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with NiFe lead frames and lead in finishes of fine pitch components other than connectors with a pitch of 0.65 mm or less with copper lead frames. (2006/691/EC)
24. Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors. (2006/691/EC)
25. Lead oxide in plasma display panels (PDP) and surface conduction electron emitter displays (SED) used in structural elements; notably in the front and rear glass dielectric layer, the bus electrode, the black stripe, the address electrode, the barrier ribs, the seal frit and frit ring as well as in print pastes. (2006/691/EC)
26. Lead oxide in the glass envelope of Black Light Blue (BLB) lamps. (2006/691/EC)
27. Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers. (2006/691/EC)
28. Hexavalent chromium in corrosion preventive coatings of unpainted metal sheetings and fasteners used for corrosion protection and Electromagnetic Interference Shielding in equipment falling under category three of Directive 2002/96/EC (IT and telecommunications equipment). Exemption granted until 1 July 2007. (2006/692/EC)
29. Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC. (2006/690/EC)

**APPENDIX**

**附录**

Test Procedures Flow Chart for the determination of total heavy metals, Hexavalent Chromium and flame retardants







## APPENDIX

## 附录

## Test Procedures Flow Chart for the determination of total heavy metals, Hexavalent Chromium and flame retardants

