



# TEST REPORT

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DATE : Dec 21, 2011  
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**DATE OF SUBMISSION** : Dec 15, 2011

**TEST PERIOD** : Dec 15, 2011 to Dec 21, 2011

**NO. OF WORKING DAYS** : 5

**SAMPLE DESCRIPTION** : Wire Buckle

Color: /

Style No.: BF10

P.O. No.: /

Country of Origin: /

Country of Destination: /

**MANUFACTURER** : /

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Heavy Metals Content – European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)	PASS	

RW

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**BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD**

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**REMARK**

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Photo of the Submitted Sample





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### TEST RESULT

#### Heavy Metals Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

**Test Method** : See Appendix.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
1	Dull silvery metal	-	-

See Analytes (Parameter) and their corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Metallic material
	Type II	Glass or ceramic material
	Type III	Other non-metallic material except Type II

-	Unit	Req.	Result
<b>Test Item(s)</b>	-	-	1
<b>Type</b>	-	I	I
<b>Parameter</b>	-	-	-
Lead (Pb)	mg/kg	1000	ND
Cadmium (Cd)	mg/kg	100	ND
Mercury (Hg)	mg/kg	1000	ND
Chromium VI (Cr VI)	-	Negative	Negative*
<b>Conclusion</b>	-	-	PASS

Note / Key :

ND = Not detected  
NR = Not requested  
% = percent  
Detection Limit (mg/kg) :  
For Type I - Each (Pb, Cd & Hg) 2  
For Type II - Each (Pb, Cd, Hg & Cr VI) 2  
For Type III - Each (Pb, Cd, Hg & Cr VI) 2; Each PBBs 50; Each PBDEs 50

“>” = Greater than  
mg/kg = milligram(s) per kilogram = ppm = part(s) per million  
10000 mg/kg = 1 %

Req. = Requirement

Remark :

- The list of analytes is summarized in table of Appendix.
- The test flowchart of heavy metals and flame retardants content is listed in table of Appendix.
- \*Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).
- According to European Council Directive 2011/65/EU, Article 5 “Adaptation of the Annexes to scientific and technical progress”, exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.

END

## APPENDIX

List of Analytes and their Corresponding Test Methods [ European Council Directive 2011/65/EU ] :		
No.	Name of Analytes	Test Method(s)
1	Lead (Pb)	With reference to EN 62321: 2009, Clauses 8, 9 and 10.
2	Cadmium (Cd)	
3	Mercury (Hg)	With reference to EN 62321: 2009, Clause 7.
4	Chromium VI (Cr VI)	<u>Metal</u> : With reference to EN 62321: 2009, Annex B <sup>[a]</sup> . <u>Polymers &amp; Electronics</u> : With reference to EN 62321: 2009, Annex C.
5	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to EN 62321: 2009, Annex A.
6	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.	

**Test Flowchart of Heavy Metals and Flame Retardants Content [ European Council Directive 2011/65/EU ] :**

