

BESTSUB TECHNOLOGIES CO LTD  
 RM810 EXCHANGE SQUARE, NO.268 DONGFENG ZHONG ROAD, YUEXIU DISTRICT,  
 GUANGZHOU, 510030, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : HAIRPIN(ROUND,HEAT,SUN+LOWER)  
 SGS Ref No. : CAN13-151363  
 Style / Item No. : FJ01,FJ02,FJ03  
 Test Performed : Selected test(s) as requested by applicant  
 Sample Receiving Date : Sep 26, 2013  
 Test Performing Date : Sep 26, 2013 to Oct 11, 2013  
 Test Result(s) : For further details, please refer to the following page(s)

Test Requested	Result
To determine the Lead (Pb)& Cadmium (Cd) content in the submitted sample(s).	Refer to next page(s)
To determine the release of Nickel(Ni) content in the submitted sample(s) in accordance with the Entry 27 of Regulation (EC) No. 552/2009 amending Annex XVII of REACH Regulation (EC) No. 1907/2006 (previously restricted under Directive 94/27/EC & 2004/96/EC).	PASS

Signed for and on behalf of  
 SGS-CSTC Ltd.



Yan Lau  
 Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	CAN13-151363.001	Silvery plated metal(clip)
2	CAN13-151363.002	Silvery metal rivet(on clip)
3	CAN13-151363.003	"Hairpin"

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

**Lead (Pb)& Cadmium (Cd)**

Test Method : With reference to US EPA Method 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	001	002
Cadmium (Cd)	mg/kg	5	ND	9
Lead (Pb)	mg/kg	10	ND	63

**Entry 27 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 94/27/EC and 2004/96/EC)– Nickel release**

Test Method : As specified in EN 1811: 2011+ AC:2012,.Analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	003
Sample Area	-	sq. cm	-	18.58
Volume of Test Solution	-	ml	-	18.58
Spot Test	-	-	-	Positive
Nickel Release - Trial 1	0.50	µg/sq. cm/week	0.10	ND
Nickel Release - Trial 2	0.50	µg/sq. cm/week	0.10	ND
Nickel Release - Trial 3	0.50	µg/sq. cm/week	0.10	ND

**Conclusion**

**PASS**

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Notes :

- (1) Max. limit specified by entry 27 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 94/27/EC and 2004/96/EC).
- (2) As Nickel is found to be positive by CR 12471:2002, simulation of wear and corrosion by the EN 12472:2005 + A1:2009 is performed.

Comments are given according to Annex A of EN1811:2011 as below:

Type of sample	Nickel Release ( $\mu\text{g}/\text{cm}^2/\text{week}$ )		
	PASS	NO CLEAR DECISION*	FAIL
Article with Nickel release limit of $0.5\mu\text{g}/\text{cm}^2/\text{week}$	$\leq 0.28$	$>0.28$ and $<0.88$	$\geq 0.88$
Article with Nickel release limit of $0.2\mu\text{g}/\text{cm}^2/\text{week}$	$\leq 0.11$	$>0.11$ and $<0.35$	$\geq 0.35$

\* No clear decision = Inconclusive

Sample photo:



Product photo

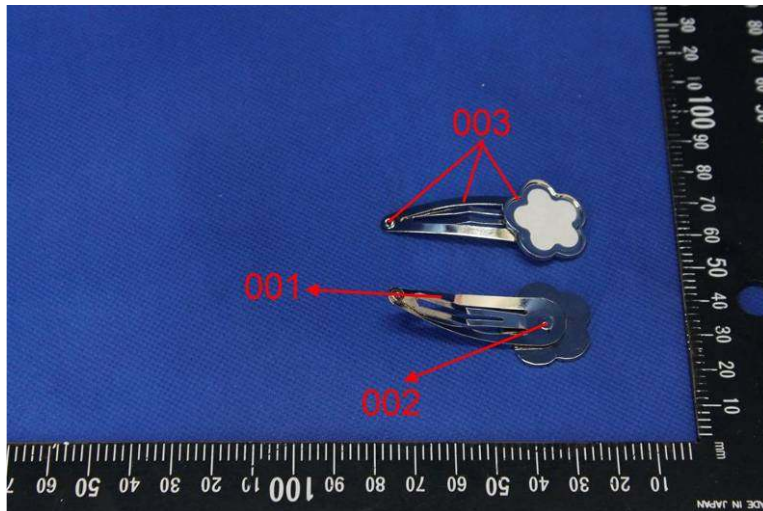
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Product photo



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

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