



# TEST REPORT

**BUREAU  
VERITAS**

**Technical Report: (6613)100-0583-R1**

May 10, 2013

The report is amendment of and supersedes the previous report (6613)100-0583 dated April 24, 2013

Date Received: April 10, 2013

Page 1 of 7

Sophia chen  
Neoflam Inc.  
#887-6, Hwagok-dong, Gangseo-gu, Seoul, Korea

Sample Description: Sample(s) received is/are stated to be:  
25oz(700ml) TRITAN Flip Top Water Bottle  
16oz(500ml) TRITAN Staxx Water Bottle

Color:	/	Style No(s):	HP-FT-F70/HP-ST-N50
Order No.:	/	PO No.:	HLC-20130123-01S
Model No.:	/	Batch No.:	/
Age Grade:	/	Product End Use:	/
Vendor:	/	Retest No.:	/
Manufacturer:	NINGBO TOPSTAR HOUSEHOLD COMMODITY	Supplier Reference:	/
Buyer:	Deepesh Trading Co.L.L.C	Country of Origin:	CHINA
Test Period:	April 10, 2013 to April 24, 2013	Country of Destination:	UAE

## SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Sensory Test (Odour and Taste) for Materials in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB	PASS
Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
Volatile Organic Matter Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
Extractable Matter Content for Silicon in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation	PASS
Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments	PASS
Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments	PASS



Technical Report:

**(6613)100-0583-R1**

May 10, 2013

Page 2 of 7

**REMARK**

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

General enquiry and invoicing

Ms. Summer Ji

(021) 24166847

Summer.ji@cn.bureauveritas.com

Technical enquiry

Mr. Simon Zhang

(021)24166846

Simon.zhang@cn.bureauveritas.com

**BUREAU VERITAS**

**CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)**

PREPARED BY : \_\_\_\_\_ Summer \_\_\_\_\_

Simon Zhang  
Section Manager

RW/2013



Technical Report:

**(6613)100-0583-R1**

May 10, 2013

Page 3 of 7

**Photo of the Submitted Sample**





Technical Report: (6613)100-0583-R1

May 10, 2013

Page 4 of 7

### TEST RESULT

**Sample Description Assigned by Laboratory:**

Test Item	Description	Client Claimed Material
1	Water bottle (complete article, 500ml, magenta)	/
2	Water bottle (complete article, 700ml, cyan)	/
3	Magenta silicone (stopper, 500ml)	Silicone
4	Translucent silicone (sealing ring, 700ml)	Silicone
5	Transparent magenta plastic (body, 500ml)	Tritan
6	Transparent cyan plastic (body, 700ml)	Tritan
7	Cyan plastic (lid, 700ml)	PP

**I. Sensory Test (Odour and Taste) for Materials in Contact with Foodstuffs – EC No. 1935/2004 and § 30 and 31 LFGB and BfR Recommendation**

Parameter	Result		Maximum Allowable Limit
	1	2	
Odour	1	1	2.5 Scale
Taste transfer into foodstuff through simulant, Mineral water	0	0	2.5 Scale
<b>Conclusion</b>	PASS	PASS	-

Note: Scale: 0 = no perceptible off-odour (or taste transfer);  
 1 = off-odour (or taste transfer) just perceptible (but still difficult to define);  
 2 = slight off-odour (or taste transfer);  
 3 = distinct off-odour (or taste transfer);  
 4 = strong off-odour (or taste transfer)

Method: DIN 10955: 2004-06

**II. Volatile Organic Matter Content for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation**

Parameter	Unit	Result		Maximum Allowable Limit
		3	4	
Volatile Organic Matter	% (w/w)	< 0.05	< 0.05	0.5
<b>Conclusion</b>	-	PASS	PASS	-

Note: “<” = less than  
 % w/w = percent weight by weight

Method: Gravimetric method.

Remark: The limit refers to BfR Recommendation XV.





Technical Report: (6613)100-0583-R1

May 10, 2013

Page 5 of 7

### TEST RESULT

#### **III. Peroxides Value for Plastic Materials in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation**

Parameter	Result		Maximum Allowable Limit
	3	4	
Peroxides	Absent	Absent	Absent
<b>Conclusion</b>	PASS	PASS	-

Method: European Pharmacopeia 5.0, Ph. Eur. Method 2.5.5.

Remark: The limit refers to BfR Recommendation XV.

#### **IV. Extractable Matter Content for Silicon in Contact with Foodstuffs – § 30 and 31 LFGB and BfR Recommendation**

Parameter	Unit	Result		Maximum Allowable Limit
		3	4	
Extractable Matter	% w/w	0.11	0.09	0.5
<b>Conclusion</b>	-	PASS	PASS	-

Note: “<” = less than  
% w/w = percent weight by weight

Method: Gravimetric method after reflux for 5 hours with water.

Remark: The limit refers to BfR Recommendation XV.

#### **V. Overall Migration Test for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments**

Test Condition: 3% Acetic acid: 40 °C, 24 hrs

Simulant Used	Unit	Result			Maximum Allowable Limit	Analytical Tolerance
		5	6	7		
3% Acetic acid	mg/dm <sup>2</sup>	<5	<5	<5	10	+2
<b>Conclusion</b>	-	PASS	PASS	PASS	-	-

Note: “<” = less than  
mg/dm<sup>2</sup> = milligram per square decimeter

Method: EN 1186-1: 2002, EN 1186-3: 2002 and EN 1186-9: 2002.

Remark: 1) The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory statutes.  
2) For article intended for repeated use, the migration tests are carried out three times on the same test sample and the third test result is shown in result table.



Technical Report: (6613)100-0583-R1

May 10, 2013

Page 6 of 7

### TEST RESULT

#### **VI. Specific Migration of Heavy Metals for Plastic Materials in Contact with Foodstuffs – Commission Regulation (EU) No. 10/2011 and Its Amendments**

Test Condition: 3% Acetic acid: 40°C, 24 hrs

Parameter	Simulant Used	Unit	Result			Maximum Allowable Limit
			5	6	7	
Barium (Ba)	3% Acetic acid	mg/kg	<0.1	<0.1	<0.1	1
Cobalt (Co)	3% Acetic acid	mg/kg	<0.005	<0.005	<0.005	0.05
Copper (Cu)	3% Acetic acid	mg/kg	<0.5	<0.5	<0.5	5
Iron (Fe)	3% Acetic acid	mg/kg	<5	<5	<5	48
Lithium (Li)	3% Acetic acid	mg/kg	<0.1	<0.1	<0.1	0.6
Manganese (Mn)	3% Acetic acid	mg/kg	<0.1	<0.1	<0.1	0.6
Zinc (Zn)	3% Acetic acid	mg/kg	<3	<3	<3	25
<b>Conclusion</b>	-	-	PASS	PASS	PASS	-

Note: “<” = less than  
mg/kg = milligram per kilogram

Method: EN 13130-1: 2004 and analysis by Inductively Coupled Argon Plasma Spectrometer (ICP).

Remark: The migration test is carried out according to EC Regulation No. 10/2011 and the corresponding regulatory statutes.

APPENDIX

Photo provided by client



END