

Test Report

No. SH8130017/CHEM

Date: Sep. 19, 2008

Page 1 of 6

ZHEJIANG FEIJIAN INDUSTRY & TRADE CO., LTD
NANFENG ROAD, GUSHAN INDUSTRIAL ZONE, YONGKANG CITY, ZHEJIANG, CHINA

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

Sample Name : STAINLESS STEEL SPORTS BOTTLE
SGS Ref No. : SHD002817969
Article/Model No. : FJSS-T750
Manufacture : ZHEJIANG FEIJIAN INDUSTRY & TRADE CO., LTD
Country of Origin : CHINA

Sample Receiving Date : Sep.08, 2008
Testing Period : Sep.08 – 16, 2008

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31,35, European Commission Directive 2007/19/EC (2002/72/EC amendment) and BfR recommendation

- 1) Sensorial examination odour and taste test.
- 2) For material: Metal or metallic coating-Extractable Heavy Metals.
- 3) For material: PP – Overall migration test.
- 4) For material: PP – Catalyst residue, a) Chromium, b) Vanadium and Zirconium content.
- 5) For material: Silicon rubber – Volatile organic matter (VOM).
- 6) For material: Silicon rubber – Peroxide value.
- 7) For material: Silicon rubber – Organotin content (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Triphenyltin, Mono-octyltin, Di-octyltin).
- 8) For material: Silicon rubber – Extractable component.

Test Method/Test Results: Please refer to next page.

Conclusion : When tested as specified, the submitted sample complies with the permissible safety limit as specified in LFGB, Section 30 and 31,35 on Materials and Articles intended to come into contact with aqueous foodstuff(pH>4.5).

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Ella Zhang
Section Manager

Signed for and on behalf of
SGS-CSTC Chemical Laboratory



Sandy Hao
Lab Manager

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.

Test Report

Test Method

No. SH8130017/CHEM

Date: Sep. 19, 2008

Page 2 of 6

- : 1) Robinson's test with reference to DIN 10955:1983 (2003)
 Test condition: 70°C 4 hours
 Test media: Distilled water
 No. of panelist: 5
- 2) Sample preparation in distilled water at 70°C for 4 hours, followed by analysis using Inductively Coupled Argon Plasma Spectrometer.
- 3) With reference to EN1186-1:2002 for selection of conditions and test methods; EN1186-3:2002 aqueous food simulants by total immersion method;
- 4) a) Sample Preparation in distilled water at 100°C for 2 hours, with reference to EN1186-1 : 2002, followed by analysis using Inductively Coupled Argon Plasma Spectrometry.
 b) Acid digestion, followed by analysis using Inductively Coupled Argon Plasma Spectrometry.
- 5) With reference to LFGB BfR Part B Part II Section XV, May 2003 and LFGB section 35 B80.30 1(EG).
 Test condition: 70°C, 4 hours.
- 6) With reference to European pharmacopoeia, 2005 Appendix X F. Peroxide Value method A
- 7) Solvent extraction followed by analysis using Gas Chromatography Spectrometer
- 8) With reference to 61st Communication on testing of plastics in Bundesgesundheitsbl 46 (2003) 362.

Test Results

1) Sensorial examination odour and taste test

Test Items	Result	Maximum Permissible Limit
	STAINLESS STEEL SPORTS BOTTLE	
Sensorial examination odour (Point scale)	1.6	2.5
Sensorial examination taste (Point scale)	1	2.5

Scale evaluation:

- 0: No perceptible odour
 1: Odour just perceptible (still difficult to define)
 2: Moderate odour
 3: Moderately strong odour
 4: Strong odour

2) Extractable Heavy Metals

Test Items	Result (mg/dm ²)	Maximum Permissible Limit (mg/dm ²)
	1	
Extractable Lead	<0.001	0.010
Extractable Cadmium	<0.001	0.005
Extractable Chromium	<0.01	0.4
Extractable Nickel	<0.01	0.1
Extractable Copper	<0.01	0.5
Extractable Antimony	Absent	Absent
Extractable Cobalt	Absent	Absent

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not operate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.

3) Overall migration test

Simulant used	Test condition	Overall Migration (mg/dm ²)	Maximum permissible Limit (mg/dm ²)
		2*	
Deionized Water	4 hours at 70 °C	<3.0	10

Note: 1. Analytical tolerance of aqueous simulants is 1 mg/dm²

4) Chromium, Vanadium and Zirconium content

Test Items	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
	2*	
Extractable Chromium	<0.05	0.05
Total Vanadium	<20	20
Total Zirconium	<20	100

5) Volatile organic matter

Test Items	Result (% w/w)	Maximum Permissible Limit (% w/w)
	3*	
Volatile organic matter (VOM)	<0.1	0.5

Note: %w/w =percentage of weight by weight

6) Peroxide Value

Test Items	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
	3*	
Peroxide Value	Absent	Absent

Note: mg/kg=milligram per kilogram

7) Organic content (Monobutyltin, Dibutyltin, Tributyltin, Tetrabutyltin, Triphenyltin, Mono-octyltin, Di-octyltin)

Test Items	Result (mg/kg)	Maximum Permissible Limit (mg/kg)
	3*	
a) Monobutyl tin (MBT)	Absent	Absent
b) Dibutyl tin (DBT)	Absent	Absent
c) Tetrabutyl (TBT)	Absent	Absent
d) Tetrabutyltin (TeBT)	Absent	Absent
e) Triphenyl tin (TPT)	Absent	Absent
f) Mono-octyl tin (MOT)	Absent	Absent
g) Dioctyl tin (DOT)	Absent	Absent

Note: Detection Limit is 1 mg/kg

8) Extractable component.

Simulant Used	Extractable Components (%w/w)	Maximum Permissible Limit (%w/w)
	3*	
Deionized Water	0.4	0.5
10% Ethanol (v/v)Aqueous Solution	0.3	0.5

Note: %w/w =percentage of weight by weight

Test Report

No. SH8130017/CHEM

Date: Sep. 19, 2008

Page 4 of 6

Test Part Description:

1. Silvery metal bottle
2. Black plastic cover
3. White silicon rubber gasket

Note: 1. mg/kg = milligram per kilogram

2. mg/dm² = milligram per square decimeter

3. °C = degree Celsius

4. <= less than

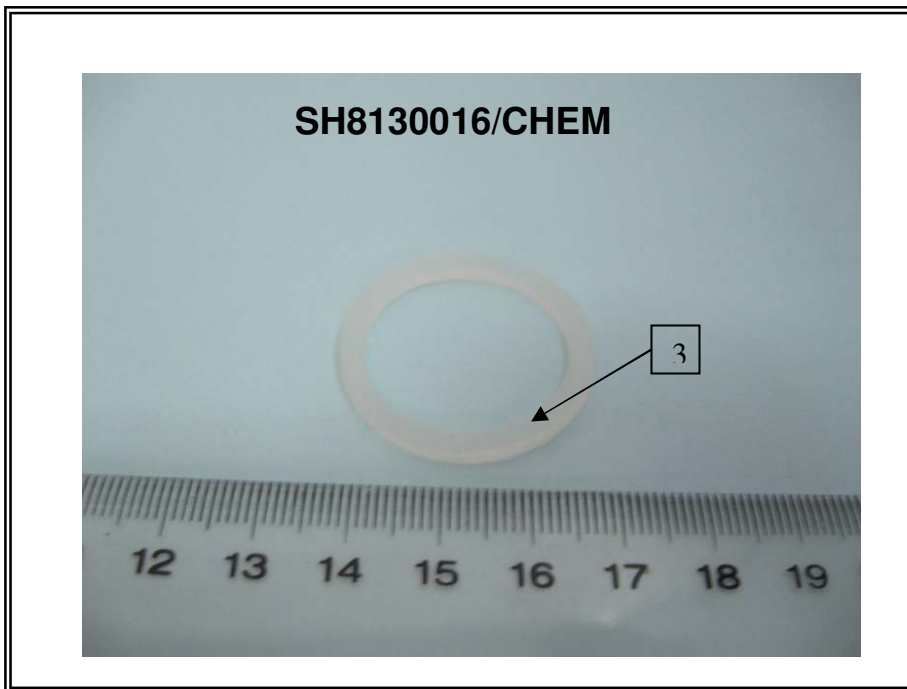
5. *The test results 2 are taken from report SH8130016/CHEM-2, Date: 2008/09/11.

*The test results 3 are taken from report SH8130016/CHEM-3, Date: 2008/09/11.

Sample Photo:



This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



SGS authenticate the photo on original report only

*** End of Report ***

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.