



Test Report

No. 2141788/SD

Date : Nov 03 2011

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ECOTANKA GLOBAL HK LIMITED
NO. 2-1 WEST LAKE ROAD
XICHENG STREET
YONGKANG CITY CHINA

The following samples were submitted and identified on behalf of the client as :
ORIGINAL TANKA RANGE STAINLESS STEEL SINGLE WALL DRINK BOTTLE

SGS Job No. : 4028233
Quantity Submitted : 10 PCS. SAMPLES & ADDITIONAL PARTS
Buyer : ECOTANKA GLOBAL HK LIMITED
Country of Origin : CHINA
Country of Destination : WORLDWIDE
Sample Receiving Date : OCT 21, 2011
Test Performing Date : OCT 21 TO NOV 01, 2011
Test Requested : Please refer to the result summary.
Test Method & Results : Please refer to next page(s).
Result Summary :

Test Requested	Conclusion
1. European Commission Regulation (EU) No 10/2011 and hence Article 3 of European Regulation No. 1935/2004. (As per client's request)	--
a) Plastic – Overall migration	PASS
b) Specific Migration of Heavy Metals	PASS
2. Council of Europe Resolution AP (2004) 5 and hence Article 3 of European Regulation No. 1935/2004. (As per client's request)	--
a) Silicone rubber – Overall migration	PASS
3. European Commission Directive 93/11/EEC and Council of Europe Resolution AP (2004) 4 and hence Article 3 of European Regulation No. 1935/2004. (As per client's request)	--
a) Rubber – Nitrosamine and Nitrosatable substances content	PASS
b) Rubber – Overall migration	PASS
c) Rubber – Specific migration of Aromatic Amine	PASS
4. Article 3 of European Regulation No. 1935/2004. (As per client's request)	--
Metal – Extractable heavy metals	PASS

*** SAMPLES RETURNED ***

Signed for and on behalf of
SGS Hong Kong Ltd.

Au Kam Chi, Gigi
Assistant Section Manager

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Test Results :

1. European Commission Regulation (EU) No 10/2011 (As per client's request)

a) Plastic – Overall migration

Method : With reference to EN 1186-1:2002 for selection of conditions and test methods;
EN 1186-3:2002 aqueous food simulants by total immersion method;

Simulant Used	Test Condition	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
		1 – 2		
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 70 °C	ND	5.0	60
50% Ethanol (V/V) Aqueous Solution	2 hours at 70 °C	ND	5.0	60
Comment	--	PASS	--	--

Sample Description :

1. Black Plastic (Lid)
2. Green Plastic (Spout)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected

b) Specific Migration of Heavy Metals

Method: Sample preparation in 3% acetic acid (w/v) in aqueous solution at 70°C for 2 hours with reference to EN 13130-1:2004; followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP).

Test Item	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1 – 2		
Specific Migration of Barium	ND	0.25	1
Specific Migration of Cobalt	ND	0.03	0.05
Specific Migration of Copper	ND	0.25	5
Specific Migration of Iron	ND	0.25	48
Specific Migration of Lithium	ND	0.5	0.6
Specific Migration of Manganese	ND	0.25	0.6
Specific Migration of Zinc	ND	0.5	25
Comment	PASS	--	--

Sample Description :

1. Black Plastic (Lid)
2. Green Plastic (Spout)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected

To be cont'd...

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Test Results (Cont'd):

2. Council of Europe Resolution AP (2004) 5 (As per client's request)

a) Silicone rubber – Overall migration

 Method : With reference to EN 1186-1:2002 for selection of conditions and test methods;
 EN 1186-3:2002 aqueous food simulants by total immersion method;

Simulant Used	Test Condition	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
		1		
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 70 °C	ND	5.0	60
50% Ethanol (V/V) Aqueous Solution	2 hours at 70 °C	ND	5.0	60
Comment	--	PASS	--	--

Sample Description :

1. Semi-Transparent Silicone Rubber (Ring)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with

2. °C = degree Celsius

3. ND = Not Detected

3. European Commission Directive 93/11/EEC and Council of Europe Resolution AP (2004) 4 (As per client's request)

a) Rubber – Nitrosamines and Nitrosatable substances content

Method : Sample preparation with reference to EN 12868:1999, followed by analysis using Gas Chromatography – Nitrogen Phosphorus Detector (GC-NPD).

Test Item	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
	1		
Nitrosamines	ND	0.01	0.01
Nitrosatable substances	ND	0.1	0.1
Comment	PASS	--	--

Sample Description :

1. Black Rubber (Spout)

Note : 1. Nitrosamines tested: N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPIP), N-nitrosopyrrolidine (NPYR), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBzA), N-nitroso-N-methyl-N-phenylamine (NMPHA), N-nitroso-N-ethyl-N-phenylamine (NEPHA) and N-nitrosodiisononylamine (NDiNA).

2. mg/kg = milligram per kilogram

3. ND = Not Detected

To be cont'd...

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Test Results (Cont'd):

3. European Commission Directive 93/11/EEC and Council of Europe Resolution AP (2004) 4 (As per client's request) (Cont'd)

b) Rubber – Overall migration

Method : With reference to EN 1186-1:2002 for selection of conditions and test methods;
EN 1186-3:2002 aqueous food simulants by total immersion method;

Simulant Used	Test Condition	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
		1		
3% Acetic Acid (W/V) Aqueous Solution	2 hours at 70 °C	ND	5.0	60
50% Ethanol (V/V) Aqueous Solution	2 hours at 70 °C	ND	5.0	60
Comment	--	PASS	--	--

Sample Description :

1. Black Rubber (Spout)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected

c) Rubber – Specific migration of Aromatic Amine

Method : Sample preparation in 3% acetic acid at 70 °C for 2 hours; followed by analysis with reference to DIN 55610:1986.

Test Item	Result (mg/kg)	Detection Limit (mg/kg)	Permissible Limit
	1		
Specific migration of Aromatic Amine	ND	0.01	Not Detected
Comment	PASS	--	--

Sample Description :

1. Black Rubber (Spout)

Note : 1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. ND = Not Detected

To be cont'd...

Test Results (Cont'd):

4. Article 3 of European Regulation No. 1935/2004 (As per client's request)

Metal – Extractable heavy metals

Method : Sample preparation in 3% acetic acid at 70°C for 2 hours, followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP).

Test Item	Result (mg/dm ²)	Detection Limit (mg/dm ²)	Permissible Limit (mg/dm ²)
	1		
Extractable Lead	ND	0.001	0.010
Extractable Cadmium	ND	0.001	0.005
Extractable Chromium	ND	0.010	0.45
Extractable Nickel	ND	0.010	0.1
Extractable Copper	ND	0.010	0.5
Extractable Antimony	ND	0.100	Not Detected
Extractable Cobalt	ND	0.100	Not Detected
Comment	PASS	--	--

Sample Description :

1. Silvery Metal (Body)

- Note : 1. mg/dm² = milligram per square decimeter
 2. ND = Not Detected

Photo Appendix


Sample as received

*** End of Report ***

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