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

Applicant	:	Shenzhen OZOSL Technology Co., Ltd.
Address	:	201, Building 6, Jingding Technology Industrial Zone, No.2, Jinlong Avenue, Baolong Community, Longgang Street, Longgang District, Shenzhen
Sample Name	:	High Oxygen Kettle
Sample model	:	Y20
Country of Destination	:	Europe
Receive Date	:	Sep. 11, 2017
Testing period	:	Sep. 11, 2017 - Sep. 19, 2017
Test Requested	:	As client's requirement, with reference to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 and BFR recommendation, for selecting the following items to test the submitted sample(s). 1) Sensorial examination odour and taste test. 2) For material: PP - Overall Migration Test. 3) For material: PP - Specific Migration of Heavy Metals. 4) For material: PP - Specific Migration of Primary Aromatic Amines. 5) For material: PP - Catalyst Residues (Cr, V, Zr, Hf). 6) For material: PP - 18 kinds of PAHs.
Test Method	:	Please refer to the next page(s).
Test Result(s)	:	Please refer to the next page(s).
Conclusion(s)	:	Please refer to the next page(s).

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Authorized signature:

Lab Manager: Gavin Zhou

NINGBO GIG TESTING TECHNOLOGY SERVICE CO., LTD. GIG

Sep. 19, 2017

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Test Result(s):

Test Sample Description:

Material No.	Sample Name	Client Claimed Material	Sample Description	Location
01	High Oxygen Kettle	PP	White plastic	Body of bottle

1. Sensorial examination odour and taste test

Test Method: DIN 10955: 2004

Sensory analysis - Testing of packaging materials and packages for foodstuffs

Test Item	Maximum permissible limit(Grade)	Result(s) (Grade)	Conclusion(s)
		01	
Sensorial examination odour	2.5	0	PASS
Sensorial examination taste	2.5	0	PASS

Note: 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. Overall Migration for Plastic

Test Method: With reference to Commission Regulation (EU) No.10/2011 of 14 January 2011 Annex III and Annex V for selection of conditions and EN1186-1: 2002 for selection of test methods; EN1186-3: 2002 aqueous food simulants by total immersion method.

Simulant used	Test condition	Maximum permissible limit (mg/dm^2)	Result(s) (mg/dm^2)	Conclusion(s)
			01	
10% Ethanol (V/V) Aqueous Solution	1 hour at 100℃	10	< 3.0	PASS

Note: 1. mg/dm^2 = milligram per square decimeter of sample;

2. “<” = less than.

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3. Specific Migration of Heavy Metals

Test Method: With reference to Commission Regulation (EU) No.10/2011 of 14 January 2011 Annex III and Annex V for selection of conditions;
Followed by analysis using US EPA 6010C: 2007 Inductively Coupled Plasma: Atomic Emission Spectrometry

Test Items	Test condition	Maximum permissible limit (mg/kg)	Result(s) (mg/kg) 01	Conclusion(s)
Migration Barium(Ba)	3 days at 40℃ (3% Acetic Acid (W/V) Aqueous Solution)	1	< 0.1	PASS
Migration Cobalt(Co)		0.05	< 0.01	PASS
Migration Copper(Cu)		5	< 0.1	PASS
Migration Iron(Fe)		48	< 0.1	PASS
Migration Lithium(Li)		0.6	< 0.1	PASS
Migration Manganese(Mn)		0.6	< 0.1	PASS
Migration Zinc(Zn)		5	< 0.1	PASS
Migration Aluminium(Al)		1	< 0.1	PASS
Migration Nickel(Ni)		0.02	< 0.01	PASS

Note: 1. mg/kg = milligram per kilogram food simulant;
2. "<" = less than.

4. Specific Migration of Primary Aromatic Amines

Test Method: BVL L 00.00-6: 1995+AC: 2002
Analysis of food - Determination of primary aromatic amines in aqueous food

Simulant used	Test condition	Maximum permissible limit (mg/kg)	Result(s) (mg/kg) 01	Conclusion(s)
3% Acetic Acid (W/V) Aqueous Solution	3 days at 40℃	0.01	< 0.01	PASS

Note: 1. mg/kg = milligram per kilogram food simulant;
2. "<" = less than.

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5. Catalyst Residues (Cr, V, Zr, Hf)

Test Items	Maximum permissible limit (mg/kg)	Result(s) (mg/kg)	Conclusion(s)
		01	
Total Chromium(Cr)	10	< 2	PASS
Total Vanadium(V)	20	< 2	PASS
Total Zirconium(Zr)	100	< 2	PASS
Total Hafnium(Hf)	100	< 2	PASS

Note: 1. mg/kg = milligram per kilogram sample;
2. "<" = less than.

6. Polycyclic Aromatic Hydrocarbons (PAHs) for Plastic

Test Method: AfPS-GS-2014-01-PAH
Testing and Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Recognition of the GS Mark

Item No.	Test Item	CAS No.	Unit	MDL	Limit	Result(s)
						01
1	Benzo(a)Pyrene	50-32-8	mg/kg	0.2	< 0.2	N.D.
2	Benzo(e)Pyrene	192-97-2	mg/kg	0.2	< 0.2	N.D.
3	Benzo(a)Anthracene	56-55-3	mg/kg	0.2	< 0.2	N.D.
4	Benzo(b)Fluoranthene	205-99-2	mg/kg	0.2	< 0.2	N.D.
5	Benzo(j)Fluoranthene	205-82-3	mg/kg	0.2	< 0.2	N.D.
6	Benzo(k)Fluoranthene	207-08-9	mg/kg	0.2	< 0.2	N.D.
7	Chrysene	218-01-9	mg/kg	0.2	< 0.2	N.D.
8	Dibenzo(a,h)Anthracene	53-70-3	mg/kg	0.2	< 0.2	N.D.
9	Benzo(g,h,i)Perylene	191-24-2	mg/kg	0.2	< 0.2	N.D.
10	Indeno(1,2,3-cd)Pyrene	193-39-5	mg/kg	0.2	< 0.2	N.D.
11	Acenaphthylene	208-96-8	mg/kg	0.2	--	N.D.
12	Acenaphthene	83-32-9	mg/kg	0.2	--	N.D.
13	Anthracene	120-12-7	mg/kg	0.2	--	N.D.
14	Fluorene	86-73-7	mg/kg	0.2	--	N.D.
15	Fluoranthene	206-44-0	mg/kg	0.2	--	N.D.
16	Phenanthrene	85-01-8	mg/kg	0.2	--	N.D.
17	Pyrene	129-00-0	mg/kg	0.2	--	N.D.
18	Naphthalene	91-20-3	mg/kg	0.2	< 1	N.D.

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Item No.	Test Item	CAS No.	Unit	MDL	Limit	Result(s) 01
Sum of Acenaphthylene, Acenaphthene, Anthracene, Fluorene, Fluoranthene, Phenanthrene, Pyrene		--	mg/kg	--	< 1 (sum)	N.D.
Sum of 18 PAHs		--	mg/kg	--	< 1	N.D.
Conclusion(s)		For category 1 articles				PASS

Limits for PAHs in Products

Product Safety Commission (AFPS)
Examination and Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in the Recognition of the GS mark 4 August 2014.

Parameter	Category 1	Category 2		Category 3	
Polycyclic Aromatic Hydrocarbons (PAHs)	Materials intended to be placed in the mouth or toys with intended prolonged skin contact (> 30 seconds) (mg/kg)	Materials not falling under Category 1, with foreseeable skin contact longer than 30 seconds (long term) or frequent short-term skin contact)		Materials not falling under Category 1 or 2, with foreseeable skin contact less than 30 seconds (short-term skin contact)	
		Toys by Directive 2009/48/EC (mg/kg)	Other Products by ProdSG (mg/kg)	Toys by Directive 2009/48/EC (mg/kg)	Other Products by ProdSG (mg/kg)
Benzo(a)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(e)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(a)Anthracene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(b)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(j)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(k)Fluoranthene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Chrysene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Dibenzo(a,h)Anthracene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Benzo(g,h,i)Perylene	< 0.2	< 0.2	< 0.5	< 0.5	<1
Indeno(1,2,3-cd)Pyrene	< 0.2	< 0.2	< 0.5	< 0.5	<1

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Product Safety Commission (AFPS)
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		Toys by Directive 2009/48/EC (mg/kg)	Other Products by ProdSG (mg/kg)	Toys by Directive 2009/48/EC (mg/kg)	Other Products by ProdSG (mg/kg)
Acenaphthylene	<1 (sum)	<5 (sum)	< 10 (sum)	< 20 (sum)	< 50 (sum)
Acenaphthene					
Anthracene					
Fluorene					
Fluoranthene					
Phenanthrene					
Pyrene					
Naphthalene	<1	<2		< 10	
Sum of 18 PAHs	<1	<5	< 10	<20	<50

Note: 1. MDL = Method Detection Limit;
2. N.D. = Not Detected (Below MDL).

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Sample Photo(s):



GIG authenticate the photo(s) on original report only

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

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