



**CENTRE OF TESTING SERVICE  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **TEST REPORT**

**Test Report Number : CNB3170905-03022-CO**

**CTS (Ningbo) Testing Service Technology Co., Ltd.**

**Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China**

**PHONE +86-574-87912121 FAX +86-574-87907993**

**TEST REPORT**

REPORT No. : CNB3170905-03022-CO  
DATE : Sep. 26, 2017  
PAGE : 1 of 7

**Table of contents**

<b>1</b>	<b>General Information</b>	<b>2</b>
1.1	Application Details	2
1.2	Manufacturer & Buyer	2
1.3	Description of the Test Item	2
<b>2</b>	<b>Test Results</b>	<b>3</b>
2.1	General Information	3
2.1.1	Sample Receiving Date	3
2.1.2	Testing Period	3
2.1.3	Test Requested	3
2.1.4	Test Method	3
2.2	Results	4
<b>3</b>	<b>Sample Reference Photo</b>	<b>7</b>

The measurement results only apply to the submitted samples.  
Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

**TEST REPORT**

REPORT No. : CNB3170905-03022-CO  
DATE : Sep. 26, 2017  
PAGE : 2 of 7

**1 General Information****1.1 Application Details**

Name :  
Address :  
  
Contact : /  
Telephone :  
Fax :  
Mobile telephone : /  
Email : /

**1.2 Manufacturer & Buyer**

Manufacturer name :  
Address :  
  
Contact : /  
Telephone :  
Fax :  
Mobile telephone : /  
Email : /  
Buyer name : XINDAO B.V.

**1.3 Description of the Test Item**

Sample name : plastic mug  
Model No. : P432.362 P432.364 P432.365 P432.361  
Brand name : /  
Condition of sample(s) : EFFECTIVE

The measurement results only apply to the submitted samples.  
Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

**CTS (Ningbo) Testing Service Technology Co., Ltd.**

Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

**TEST REPORT**

REPORT No. : CNB3170905-03022-CO  
DATE : Sep. 26, 2017  
PAGE : 3 of 7

**2 Test Results****2.1 General Information****2.1.1 Sample Receiving Date**

Sep. 6, 2017

**2.1.2 Testing Period**

Sep. 6, 2017 to Sep. 22, 2017

**2.1.3 Test Requested**

In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30 & 31, Europe Resolution AP(2004)5, European Commission Directive 1935/2004/EC and Regulation (EU) No.10/2011 of 14 January 2011, Regulation (EU) No.2016/1416, Regulation (EU) 2017/752 and BfR recommendation.

- 1) For material: Plastic and Silicon rubber – Overall migration test
- 2) For material: Plastic – Specific migration of heavy metal
- 3) For material: Plastic – Specific Migration of Primary Aromatic Amines.
- 4) For material: Natural and Synthetic Rubber, Elastomers –Migration of Nitrosamines and Nitrosatable Substances.
- 5) For material: Silicon rubber – Peroxide value.
- 6) For material: Plastics and rubber – Lead content.

Remark: Selected test items as requested by applicants.

**2.1.4 Test Method**

- 1) With reference to EN 1186-1 for selection of temperature and condition; total immersion with reference to EN 1186-3 for aqueous food simulants and EN 1186-2 for olive oil.
- 2) With reference to Commission Regulation (EU) No.10/2011 of 14 January 2011 Annex III and Annex V for selection of simulant and conditions, EN13130-1:2004 for selection of test method, Samples were prepared at specific condition, followed by analysis using Inductively Coupled Argon Plasma Spectrometry.
- 3) With reference to EU Directive 2007/19/EC, Determined by GC-MS.
- 4) Annex IV of French Arrete 9 Nov 1994 and EN 12868:1999.
- 5) With reference to European pharmacopoeia, 2008 Appendix X F. Peroxide Value method A
- 6) Acid digestion, followed by analysis using Inductively Coupled Argon Plasma Spectrometry.

The measurement results only apply to the submitted samples.  
Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

**CTS (Ningbo) Testing Service Technology Co., Ltd.**

Fl.1 & 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

## TEST REPORT

REPORT No. : CNB3170905-03022-CO  
 DATE : Sep. 26, 2017  
 PAGE : 4 of 7

## 2.2 Results

### 1) Overall Migration Test

Simulant used	Temperature and condition	Limit (mg/dm <sup>2</sup> )	Result (mg/dm <sup>2</sup> )
			No.1
10% Ethanol	70 deg. C, 2 hours	10	<3
3% Acetic acid	70 deg. C, 2 hours	10	<3
20% Ethanol	70 deg. C, 2 hours	10	<3
50% Ethanol	70 deg. C, 2 hours	10	<3
Rectified olive oil	70 deg. C, 2 hours	10	<3

Simulant used	Temperature and condition	Limit (mg/dm <sup>2</sup> )	Overall Migration (mg/dm <sup>2</sup> )
			No.2
Distilled water	70 deg. C, 2 hours	10	<3
10% Ethanol	70 deg. C, 2 hours	10	<3

Simulant used	Temperature and condition	Limit (mg/dm <sup>2</sup> )	Overall Migration (mg/dm <sup>2</sup> )
			No.3
Distilled water	70 deg. C, 2 hours	10	<3
3% Acetic acid	70 deg. C, 2 hours	10	<3
10% Ethanol	70 deg. C, 2 hours	10	<3
95% Ethanol	70 deg. C, 2 hours	10	6*
Isooctane	70 deg. C, 2 hours	10	<3*

- Note :
1. mg/dm<sup>2</sup> = milligram per square decimeter
  2. <= less than
  3. \* The result was got from the third extraction duration
  4. Test simulant was specified by client

The measurement results only apply to the submitted samples.  
 Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

## TEST REPORT

REPORT No. : CNB3170905-03022-CO  
 DATE : Sep. 26, 2017  
 PAGE : 5 of 7

### 2) Specific migration of heavy metal

Test Item	Limit (mg/kg)	MDL (mg/kg)	Result (mg/kg)
			No.1
Extractable Barium	1.0	0.5	N.D.
Extractable Cobalt	0.05	0.02	N.D.
Extractable Copper	5.0	1.0	N.D.
Extractable Iron	48.0	2.0	N.D.
Extractable Lithium	0.6	0.2	N.D.
Extractable Manganese	0.6	0.2	N.D.
Extractable Zinc	5.0	2.0	N.D.
Extractable Aluminium	1.0	0.5	N.D.
Extractable Nickel	0.02	0.02	N.D.

Note : 1. mg/kg = milligram per kilogram  
 2. N.D. = not detected (less than MDL)  
 3. The limit refers to Regulation (EU) No.10/2011, Regulation (EU) No.2016/1416 and Regulation (EU) 2017/752.

### 3) Specific Migration of Primary Aromatic Amine

Test item	Result	Unit	Maximum Permissible Limit
	No.2		
Specific Migration of Primary Aromatic Amine	< 0.01	mg/kg	0.01

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

### 4) Migration of Nitrosamines and Nitrosatable

Test Items	Maximum Permissible Limit ( $\mu\text{g}/\text{dm}^2$ )	Result ( $\mu\text{g}/\text{dm}^2$ )
		No.2
Total Nitrosamines	1	< 1
Total Nitrosatable Substances	10	< 10

Note : 1. <=less than  
 2.  $\mu\text{g}/\text{dm}^2$ =microgram per square decimetre

The measurement results only apply to the submitted samples.  
 Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

**TEST REPORT**

REPORT No. : CNB3170905-03022-CO  
DATE : Sep. 26, 2017  
PAGE : 6 of 7

## 5) Peroxide value

Test Item	Maximum Permissible Limit	Result
		No.3
Peroxide Value	Absent	Absent

## 6) Lead content

Test Item	Maximum Permissible Limit (mg/kg)	Result
		No.3
Total Lead	Absent	<2

Test Part Description :

No.1 : Black PP (inside)  
No.2 : Black TPR (cover)  
No.3 : Transparent silicone ring

Written by:



Inspected by:



Approved by:



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

The measurement results only apply to the submitted samples.  
Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.

**CTS (Ningbo) Testing Service Technology Co., Ltd.**

Fl.1 &amp; 8 West, Bldg. B, No. 66, Qingyi Rd., Hi-Tech Zone, Ningbo, Zhejiang, China

Tel: +86-574-87912121 (16 lines)

Fax: +86-574-87907993

Complaint line: +86-574-87908003

E-mail: cts@cts-lab.com

See Reverse For Terms And Conditions of Service

**TEST REPORT**

REPORT No. : CNB3170905-03022-CO  
DATE : Sep. 26, 2017  
PAGE : 7 of 7

**3 Sample Reference Photo**

The measurement results only apply to the submitted samples.  
Copyright of this report is owned by Centre of Testing Service and may not be reproduced other than in full except with the written approval of the issuing Company.