

Test Report No.: 180248300b 001

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Client: ZHEJIANG UKPACK PACKAGING CO.,LTD
Contact Information: Tangjiazha village, Ditang Street Yuyao City, Zhejiang, China 315490
Buyer's name: n.a.
Manufacturer's name: NINGBO SUREDING PACKAGING CO.,LTD
2-2 TONGJI ROAD,SIMEN TOWN,YUYAO,ZHEJIANG
Components of Syrup dispenser pump
**Identification/
Model No(s):** UKS10
Components of Sauce dispenser pump
UKS30, UKR30, UKM30, UKFND30
Sample Receiving date: 2022-12-08
Testing Period: 2022-12-09 to 2023-01-10
Delivery condition: Apparent good, Samples tested as received

Test specification:

Performed parameter(s) for the compliance with the following regulations concerning materials in contact with foodstuff:

- Regulation (EC) No 1935/2004

Test conclusion:

PASS

Other Information:

Not available

For detailed sample picture please refer to last page

For and on behalf of TÜV Rheinland/ CCIC (Ningbo)Co., Ltd.



2023-01-16

Date

Chris W. W. Wang / Assistant Manager

Name / Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

'Decision Rule' document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Indication: Food contact
Product: Commodity, contact with foodstuff

Description of test specimen

Item

- 1 Components of Syrup dispenser pump
Components of Sauce dispenser pump

1. Material List:

Sample No.	Material	Color	Location
1	PE	Semi-transparent	Refer to photo
2	PE	Beige	Refer to photo
3	PP	Semi-transparent	Refer to photo
4	PP	White	Refer to photo
5	PP	Black	Refer to photo
6	PP	Blue	Refer to photo
7	PP	Golden	Refer to photo
8	PP	Dark blue	Refer to photo
10	SUS 304	Silver	Refer to photo
11	Glass	Transparent	Refer to photo

Remark:

According to client's information all PE, PP and SUS 304 items in same color are produced of same material. Tests were performed on randomly selected items.

2. Overall Results:

Test No.	Tested Item	Conclusion
1	Sensorial examination	PASS
2	Global Migration	PASS
3	Specific Migration of Metals	PASS
4	Colourfastness	PASS
5	Specific Release of Metals	PASS
6	Release of Lead and Cadmium from Ceramic Ware / Glassware	PASS
7	Screening of Plasticizer	PASS

3. Results

3.1 Sensorial examination

Test method: It is examined to the extent of food simulant being used, which comes into contact with the product, undergoes detectable changes in taste and smell.

For this purpose, the food simulant was stored in the product under the below mentioned time and temperature. Afterwards, the food simulant was examined by an appropriate number of tasters with regard to any divergence in smell and taste. Another test sample, which was used as a reference, was treated by the same way except that it had no contact with the product to be tested.

Before testing, the product had been cleaned according to the product's instruction manual or in the absence of such manual, by normal household cleaning.

The test is carried out on the basis of ISO 13302 by paired comparison test:

Evaluation scheme:	0 =	No discernible deviation
	1 =	Barely discernible deviation
	2 =	Weak deviation
	3 =	Clear deviation
	4 =	Strong deviation
	Limit:	3 (failed)

The following food simulants and conditions were applied:

Food simulant	Test duration / Temperature
Water	10 day(s) / 40 °C

Test No.:	1
Sample No.:	1
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

Test No.:	2
Sample No.:	2
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

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Test No.:	3
Sample No.:	3
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

Test No.:	4
Sample No.:	4
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

Test No.:	5
Sample No.:	5
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

Test No.:	6
Sample No.:	6
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

Test No.:	7
Sample No.:	7
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

Test No.:	8
Sample No.:	8
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

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Test No.:	9
Sample No.:	10
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

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3.2 Global Migration

Test method: The migratory behaviour is examined with reference to Commission Regulation (EU) No 10/2011 and its amendments.

Limit: With reference to Commission Regulation (EU) No 10/2011 and its amendments

The following food simulants and conditions were applied:

Food simulant	Test duration / Temperature
Acetic acid 3 %	10 day(s) / 40 °C
Ethanol 95 %	10 day(s) / 40 °C
Isooctane	2 day(s) / 20 °C

Test No.:	1 ^{(*)2(*)3}					
Sample No.:	1					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Acetic acid 3 %	mg/dm ²	2	<RL	<RL	<RL	10
Ethanol 95 %	mg/dm ²	2	<RL	<RL	<RL	10
Isooctane	mg/dm ²	2	7	<RL	<RL	10

Test No.:	2 ^{(*)2(*)3}					
Sample No.:	2					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Acetic acid 3 %	mg/dm ²	2	3	<RL	<RL	10
Ethanol 95 %	mg/dm ²	2	<RL	<RL	<RL	10
Isooctane	mg/dm ²	2	<RL	<RL	<RL	10

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Test No.:	3 ^{(*)2} (*)3					
Sample No.:	3					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Acetic acid 3 %	mg/dm ²	2	<RL	<RL	<RL	10
Ethanol 95 %	mg/dm ²	2	<RL	<RL	<RL	10
Isooctane	mg/dm ²	2	4	2	<RL	10

Test No.:	4 ^{(*)2} (*)3					
Sample No.:	4					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Acetic acid 3 %	mg/dm ²	2	<RL	<RL	<RL	10
Ethanol 95 %	mg/dm ²	2	<RL	<RL	<RL	10
Isooctane	mg/dm ²	2	<RL	<RL	<RL	10

Test No.:	5 ^{(*)2} (*)3					
Sample No.:	5					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Acetic acid 3 %	mg/dm ²	2	<RL	<RL	<RL	10
Ethanol 95 %	mg/dm ²	2	<RL	<RL	<RL	10
Isooctane	mg/dm ²	2	<RL	<RL	<RL	10

Test No.:	6 ^{(*)2} (*)3					
Sample No.:	6					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Acetic acid 3 %	mg/dm ²	2	2	<RL	<RL	10
Ethanol 95 %	mg/dm ²	2	<RL	<RL	<RL	10
Isooctane	mg/dm ²	2	<RL	<RL	<RL	10

Test No.:	7 ^{(*)2} (*)3					
Sample No.:	7					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Acetic acid 3 %	mg/dm ²	2	<RL	<RL	<RL	10
Ethanol 95 %	mg/dm ²	2	<RL	<RL	<RL	10
Isooctane	mg/dm ²	2	<RL	<RL	<RL	10

Test No.:	8 ^{(*)2} (*)3					
Sample No.:	8					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Acetic acid 3 %	mg/dm ²	2	<RL	<RL	<RL	10
Ethanol 95 %	mg/dm ²	2	<RL	<RL	<RL	10
Isooctane	mg/dm ²	2	3	<RL	<RL	10

Abbreviations:

- RL = Reporting Limit
- mg/dm² = Milligram per square decimetre
- ml/dm² = Mililitre per square decimetre
- < = Less than

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Remark :

*1 Acc. to DIN EN 1186-1 the following analytical tolerances have been observed:

- 3 mg/dm^2 in migration tests using rectified olive oil or substitutes,

- 1 mg/dm^2 in migration tests using aqueous simulants

A material or article that exceeds the overall migration limit by an amount not greater than the analytical tolerance mentioned above should therefore be deemed to be in compliance with the overall migration limit.

*2 Stability test is included in this test parameter.

*3 The migration results do not show increase between subsequent tests and therefore it meets the stability requirement.

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3.3 Specific Migration of Metals

Test method: The migratory behaviour was examined with reference to Commission Regulation (EU) No. 10/2011 and its amendments. Determination by ICP-MS.

Limit: With reference to Commission Regulation (EU) No 10/2011 and its amendments

The following food simulant and condition were applied:

Food simulant	Test duration / Temperature
Acetic acid 3 %	10 day(s) / 40 °C

Test No.:	1 ^(*) 2 ^(*) 3					
Material No.:	1					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Aluminium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Antimony	mg/kg	0.01	n.d.	n.d.	n.d.	0.04
Arsenic	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Barium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Cadmium	mg/kg	0.002	n.d.	n.d.	n.d.	n.d.
Total Chromium	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Cobalt	mg/kg	0.01	n.d.	n.d.	n.d.	0.05
Copper	mg/kg	0.5	n.d.	n.d.	n.d.	5
Iron	mg/kg	5	n.d.	n.d.	n.d.	48
Lead	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Lithium	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Manganese	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Mercury	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Nickel	mg/kg	0.01	n.d.	n.d.	n.d.	0.02
Zinc	mg/kg	1	n.d.	n.d.	n.d.	5
Europium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Gadolinium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Lanthanum	mg/kg	0.01	n.d.	n.d.	n.d.	--
Terbium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Sum of Lanthanide substances	mg/kg	0.01	n.d.	n.d.	n.d.	0.05

Test No.:	2 ^{(*2)(*3)}					
Material No.:	2					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Aluminium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Antimony	mg/kg	0.01	n.d.	n.d.	n.d.	0.04
Arsenic	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Barium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Cadmium	mg/kg	0.002	n.d.	n.d.	n.d.	n.d.
Total Chromium	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Cobalt	mg/kg	0.01	n.d.	n.d.	n.d.	0.05
Copper	mg/kg	0.5	n.d.	n.d.	n.d.	5
Iron	mg/kg	5	n.d.	n.d.	n.d.	48
Lead	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Lithium	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Manganese	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Mercury	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Nickel	mg/kg	0.01	n.d.	n.d.	n.d.	0.02
Zinc	mg/kg	1	n.d.	n.d.	n.d.	5
Europium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Gadolinium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Lanthanum	mg/kg	0.01	n.d.	n.d.	n.d.	--
Terbium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Sum of Lanthanide substances	mg/kg	0.01	n.d.	n.d.	n.d.	0.05

Test No.:	3 ^{(*)2} (*)3					
Material No.:	3					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Aluminium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Antimony	mg/kg	0.01	n.d.	n.d.	n.d.	0.04
Arsenic	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Barium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Cadmium	mg/kg	0.002	n.d.	n.d.	n.d.	n.d.
Total Chromium	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Cobalt	mg/kg	0.01	n.d.	n.d.	n.d.	0.05
Copper	mg/kg	0.5	n.d.	n.d.	n.d.	5
Iron	mg/kg	5	n.d.	n.d.	n.d.	48
Lead	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Lithium	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Manganese	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Mercury	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Nickel	mg/kg	0.01	n.d.	n.d.	n.d.	0.02
Zinc	mg/kg	1	n.d.	n.d.	n.d.	5
Europium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Gadolinium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Lanthanum	mg/kg	0.01	n.d.	n.d.	n.d.	--
Terbium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Sum of Lanthanide substances	mg/kg	0.01	n.d.	n.d.	n.d.	0.05

Test No.:	4 ^{(*2)(*3)}					
Material No.:	4					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Aluminium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Antimony	mg/kg	0.01	n.d.	n.d.	n.d.	0.04
Arsenic	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Barium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Cadmium	mg/kg	0.002	n.d.	n.d.	n.d.	n.d.
Total Chromium	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Cobalt	mg/kg	0.01	n.d.	n.d.	n.d.	0.05
Copper	mg/kg	0.5	n.d.	n.d.	n.d.	5
Iron	mg/kg	5	n.d.	n.d.	n.d.	48
Lead	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Lithium	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Manganese	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Mercury	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Nickel	mg/kg	0.01	n.d.	n.d.	n.d.	0.02
Zinc	mg/kg	1	n.d.	n.d.	n.d.	5
Europium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Gadolinium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Lanthanum	mg/kg	0.01	n.d.	n.d.	n.d.	--
Terbium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Sum of Lanthanide substances	mg/kg	0.01	n.d.	n.d.	n.d.	0.05

Test No.:	5 ^{(*2)(*3)}					
Material No.:	5					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Aluminium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Antimony	mg/kg	0.01	n.d.	n.d.	n.d.	0.04
Arsenic	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Barium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Cadmium	mg/kg	0.002	n.d.	n.d.	n.d.	n.d.
Total Chromium	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Cobalt	mg/kg	0.01	n.d.	n.d.	n.d.	0.05
Copper	mg/kg	0.5	n.d.	n.d.	n.d.	5
Iron	mg/kg	5	n.d.	n.d.	n.d.	48
Lead	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Lithium	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Manganese	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Mercury	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Nickel	mg/kg	0.01	n.d.	n.d.	n.d.	0.02
Zinc	mg/kg	1	n.d.	n.d.	n.d.	5
Europium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Gadolinium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Lanthanum	mg/kg	0.01	n.d.	n.d.	n.d.	--
Terbium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Sum of Lanthanide substances	mg/kg	0.01	n.d.	n.d.	n.d.	0.05

Test No.:	6 ^{(*2)(*3)}					
Material No.:	6					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Aluminium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Antimony	mg/kg	0.01	n.d.	n.d.	n.d.	0.04
Arsenic	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Barium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Cadmium	mg/kg	0.002	n.d.	n.d.	n.d.	n.d.
Total Chromium	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Cobalt	mg/kg	0.01	n.d.	n.d.	n.d.	0.05
Copper	mg/kg	0.5	n.d.	n.d.	n.d.	5
Iron	mg/kg	5	n.d.	n.d.	n.d.	48
Lead	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Lithium	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Manganese	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Mercury	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Nickel	mg/kg	0.01	n.d.	n.d.	n.d.	0.02
Zinc	mg/kg	1	n.d.	n.d.	n.d.	5
Europium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Gadolinium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Lanthanum	mg/kg	0.01	n.d.	n.d.	n.d.	--
Terbium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Sum of Lanthanide substances	mg/kg	0.01	n.d.	n.d.	n.d.	0.05

Test No.:	7 ^{(*2)(*3)}					
Material No.:	7					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Aluminium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Antimony	mg/kg	0.01	n.d.	n.d.	n.d.	0.04
Arsenic	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Barium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Cadmium	mg/kg	0.002	n.d.	n.d.	n.d.	n.d.
Total Chromium	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Cobalt	mg/kg	0.01	n.d.	n.d.	n.d.	0.05
Copper	mg/kg	0.5	n.d.	n.d.	n.d.	5
Iron	mg/kg	5	n.d.	n.d.	n.d.	48
Lead	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Lithium	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Manganese	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Mercury	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Nickel	mg/kg	0.01	n.d.	n.d.	n.d.	0.02
Zinc	mg/kg	1	n.d.	n.d.	n.d.	5
Europium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Gadolinium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Lanthanum	mg/kg	0.01	n.d.	n.d.	n.d.	--
Terbium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Sum of Lanthanide substances	mg/kg	0.01	n.d.	n.d.	n.d.	0.05

Test No.:	g ^{(*)2} / ^{(*)3}					
Material No.:	8					
Migration ratio:	167 ml / 1.0 dm ²					
Parameter	Unit	RL	1 st Migration Result	2 nd Migration Result	3 rd Migration Result	Limit
Aluminium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Antimony	mg/kg	0.01	n.d.	n.d.	n.d.	0.04
Arsenic	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Barium	mg/kg	0.1	n.d.	n.d.	n.d.	1
Cadmium	mg/kg	0.002	n.d.	n.d.	n.d.	n.d.
Total Chromium	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Cobalt	mg/kg	0.01	n.d.	n.d.	n.d.	0.05
Copper	mg/kg	0.5	n.d.	n.d.	n.d.	5
Iron	mg/kg	5	n.d.	n.d.	n.d.	48
Lead	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Lithium	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Manganese	mg/kg	0.1	n.d.	n.d.	n.d.	0.6
Mercury	mg/kg	0.01	n.d.	n.d.	n.d.	n.d.
Nickel	mg/kg	0.01	n.d.	n.d.	n.d.	0.02
Zinc	mg/kg	1	n.d.	n.d.	n.d.	5
Europium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Gadolinium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Lanthanum	mg/kg	0.01	n.d.	n.d.	n.d.	--
Terbium	mg/kg	0.01	n.d.	n.d.	n.d.	--
Sum of Lanthanide substances	mg/kg	0.01	n.d.	n.d.	n.d.	0.05

Abbreviations:

RL = Reporting limit

n.d. = Not detected

mg/kg = Milligram per kilogram

ml/dm² = Millilitre per square decimetre

< = Less than

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Remark :

- *1 Single component with an amount below reporting limit was not considered by the calculation of the sum. In the case of all lanthanide substances europium, gadolinium, lanthanum and terbium were not detected, the result is stated n.d.
- *2 Stability test is included in this test parameter.
- *3 The migration results do not show increase between subsequent tests and therefore it meets the stability requirement.

3.4 Colourfastness

Test method: Resolution AP (89) 1 on the use of colorants in plastic materials coming into contact with food, Appendix III

Limit: Resolution AP (89) 1 on the use of colorants in plastic materials coming into contact with food - *No transfer of colorants to foodstuffs is permitted*

Test No.:	1	2
Sample No.:	2	5
Parameter Colourfastness to	Difference between blank and filter paper contacted with sample	Difference between blank and filter paper contacted with sample
Water	No	No
Acetic acid 3 %	No	No
Ethanol 50 %	No	No
Oil	No	No

Test No.:	3	4
Sample No.:	6	7
Parameter Colourfastness to	Difference between blank and filter paper contacted with sample	Difference between blank and filter paper contacted with sample
Water	No	No
Acetic acid 3 %	No	No
Ethanol 50 %	No	No
Oil	No	No

Test No.:	5
Sample No.:	8
Parameter Colourfastness to	Difference between blank and filter paper contacted with sample
Water	No
Acetic acid 3 %	No
Ethanol 50 %	No
Oil	No

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3.5 Specific Release of Metals

Test method: The sample preparation is performed with reference to “*Technical Guide on Metals and alloys used in food contact materials*”. The migratory behaviour is examined with reference to Chapter V, Article 18 of Commission regulation 10/2011 and its amendments. Presence of elements were detected by means of ICP-MS.

Limit: Technical Guide on Metals and alloys used in food contact materials

The following food simulant and condition was applied:

Food simulant	Test duration / Temperature
Citric Acid 0.5 %	10 day(s) / 40 °C

Test No.:	1					
Sample No.:	10					
Volume to surface area ratio	375 ml					
	Sum 1 st + 2 nd test				3 rd test	
Parameter	Unit	RL	Result	Limits ^(*)	Result	Limits ^(*)
Silver (Ag)	mg/kg	0.05	<RL	0.56	<RL	0.08
Aluminum (Al)	mg/kg	0.1	<RL	35	<RL	5
Cobalt (Co)	mg/kg	0.01	<RL	0.14	<RL	0.02
Chromium (Cr)	mg/kg	0.01	0.02	1.75	<RL	0.25
Copper (Cu)	mg/kg	0.5	<RL	28	<RL	4
Iron (Fe)	mg/kg	5	<RL	280	<RL	40
Manganese (Mn)	mg/kg	0.1	<RL	12.6	<RL	1.8
Molybdenum (Mo)	mg/kg	0.02	<RL	0.84	<RL	0.12
Nickel (Ni)	mg/kg	0.01	<RL	0.98	<RL	0.14
Tin (Sn)	mg/kg	10	<RL	700	<RL	100
Vanadium (V)	mg/kg	0.01	<RL	0.07	<RL	0.01
Zinc (Zn)	mg/kg	1	<RL	35	<RL	5
Arsenic (As)	mg/kg	0.002	<RL	0.014	<RL	0.002
Barium (Ba)	mg/kg	0.1	<RL	8.4	<RL	1.2
Beryllium (Be)	mg/kg	0.01	<RL	0.07	<RL	0.01
Cadmium (Cd)	mg/kg	0.002	<RL	0.035	<RL	0.005
Mercury (Hg)	mg/kg	0.003	<RL	0.021	<RL	0.003
Lithium (Li)	mg/kg	0.02	<RL	0.336	<RL	0.048
Lead (Pb)	mg/kg	0.01	<RL	0.07	<RL	0.01
Antimony (Sb)	mg/kg	0.01	<RL	0.28	<RL	0.04

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Thallium (Tl)	mg/kg	0.0001	<RL	0.0007	<RL	0.0001
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Abbreviations:

RL = Reporting Limit

mg/kg = Milligram per kilogram

< = Less than

Remark:

- *1 Compliance is established on the findings on the third test for products intended for repeated use.
- *2 In addition, the sum of each metal in the first and second test should not exceed the sevenfold limit.

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3.6 Release of Lead and Cadmium from Ceramic Ware / Glassware

Test method: The test is performed reference to EN 1388-1:1995, EN 1388-2:1995 and DIN 51031:1986 respectively. The concentration of the elements is examined by means of atomic absorption spectroscopy or ICP-MS.

Limit: Directive 84/500/EEC and its amendments / BS 6748:1986 + A1:2011

The following food simulant and condition was applied:

Food simulant	Test duration / Temperature
Acetic acid 4 %	24 hours / 22 °C

Test No.:	1		
Category:	1		
Sample No.:	11		
Parameter	Unit	Result	Limit ^(*)
Lead (Pb)	mg/dm ²	< 0.02	0.8
Cadmium (Cd)	mg/dm ²	< 0.002	0.07

Abbreviations:

mg/dm² = Milligram per square decimetre

mg/l = Milligram per litre

< = Less than

Remarks:

*1 According to EU Directive 84/500/EEC and BS 6748:1986, articles in contact with food should not exceed the following limits

Category	Description	Lead	Cadmium
1	Articles which can't and articles which can be filled, the internal depth of which, measured from the lowest point to the horizontal plane passing through the upper rim, does not exceed 25 mm	0.8 mg/dm ²	0.07 mg/dm ²
2	Other articles which can be filled	4.0 mg/l	0.3 mg/l
3	Cooking ware; packaging and storage vessels having a capacity of more than three litres	1.5 mg/l	0.1 mg/l

3.7 Screening of Plasticizer ^(#)

Test method: Extraction and Detection with reference to CPSC-CH-C1001-09.3. Screening list of plasticizers acc. to table 1.

Limit: Commission Regulation (EU) No 10/2011 and amendments

Test No.:	1				
Sample No.:	1				
Parameter	CAS No.	Unit	RL	Result	Limit ^(1,2)
Benzylbutyl phthalate (BBP)	85-68-7	%	0.01	n.d.	0.1
Diethylhexyl phthalate (DEHP)	117-81-7	%	0.01	n.d.	0.1
Dibutyl phthalate (DBP)	84-74-2	%	0.01	n.d.	0.05
Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0	%	0.01	n.d.	0.1
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1	%	0.01	n.d.	0.1

Abbreviations:

n.d. = Not detected (<Reporting Limit)

RL = Reporting Limit

% = Percentage

Remark:

*1 If used as a plasticizer the following restrictions apply:

- BBP, DINP, DIDP: Can be used as a) as a plasticizer in repeated use materials and articles or b) as a plasticizer in single-use materials and articles containing non-fatty foods except for infant formulae and follow-on formulae as defined by Directive 2006/141/EC or processed cereal-based foods and baby foods for infants and young children as defined by Directive 2006/125/EC
- DEHP, DBP: Can be used as a plasticizer in repeated use materials and articles contacting non-fatty foods

Further limitations concerning the specific migration of the respective substance still apply.

*2 If used as a technical support agent the total content limitation of the respective substance within the final product apply as indicated in the table above.

Plasticizer Name	CAS No.
Di-n-pentylphthalat (DnPP)	131-18-0
Benzylbutyl phthalate (BBP)	85-68-7
Diethylhexyl phthalate (DEHP)	117-81-7
Dibutyl phthalate (DBP)	84-74-2

Plasticizer Name	CAS No.
Pentyl-iso-pentylphthalat	84777-06-0
Bis-(2-methoxyethyl)phthalat	117-82-8
Diethylhexylterephthalat (DEHT)	6422-86-2
Di-(2-butoxyethyl)phthalat	117-83-9

Diisononyl phthalate (DINP)	28553-12-0, 68515-48-0
Diisodecyl phthalate (DIDP)	26761-40-0, 68515-49-1
Di-n-octylphthalat (DNOP)	117-84-0
Dimethylphthalat (DMP)	131-11-3
Diethylphthalat (DEP)	84-66-2
Butyl-i-butylphthalat	17851-53-5
Trimethylpentandiolisobutyrat (TXIB)	6846-50-0
Diisononyladipat (DINA)	33703-08-1
Acetyltributylcitrat (ATBC)	77-90-7
Diethylhexyladipat (DEHA)	103-23-1
Hexamoll®	166412-78-8
Mesamoll®	91082-17-6
Triphenylphosphat	115-86-6
Tri-o-kresylphosphat	78-30-8
Tri-m-kresylphosphat	563-04-2
Tri-p-kresylphosphat	78-32-0
Butylbenzoat	136-60-7
Di(propylen glycol) dibenzoat, DPGDB	27138-31-4
Di(ethylen glycol) dibenzoat, DEGDB	120-55-8
LG FLEX EBN	610787-77-4
LG FLEX BET	610787-76-3
Tri(ethylhexyl)trimellitrat, TOTM	3319-31-1
2-Ethylhexyldiphenylphosphat	1241-94-7
Di-iso-heptylphthalat, DIHeP	90937-19-2, 71888-89-6

Diallylphthalat	131-17-9
Dicyclohexylphthalat (DCP)	84-61-7
Bis-(3,5,5-trimethylhexyl)phthalat	14103-61-8
Dicapryladipat	108-63-4
Di-n-butylmaleat (DBM)	1190-39-2, 105-76-0
Di-(2-ethylhexyl)maleat	142-16-5
Butylstearat	123-95-5
Dimethyladipat	627-93-0
Dibutyladipat	105-99-7
Diisodecyladipat	27178-16-1, 27193-86-8
Di(2-(2-butoxyethoxy)ethyl)adipat	141-17-3
Bis(2-butoxyethyl)adipat	141-18-4
Stearylstearat	2778-96-3
Di-n-propylphthalat	131-16-8
Di-n-hexylphthalat, DNHP	84-75-3
Di-n-heptylphthalat	3648-21-3
Di-n-nonylphthalat, DnNP	84-76-4
Di-n-decylphthalat	84-77-5
Di-n-undecylphthalat	91082-17-6
Diisoundecylphthalat, DIUP	96507-86-7
Di(2-propylheptyl)phthalat, DPHP	53306-54-0
Diisooctylphthalat, DIOP	27554-26-3
Diisobutylphthalat, DIBP	84-69-5
Diisopentylphthalat DiPP	605-50-5

(#)- Test sub-contracted to a laboratory which complies with the requirement of ISO/IEC 17025:2017.

4. Sample picture(s):



Sample 1



Above samples which are by client's declaration made of same material as tested Sample 1.



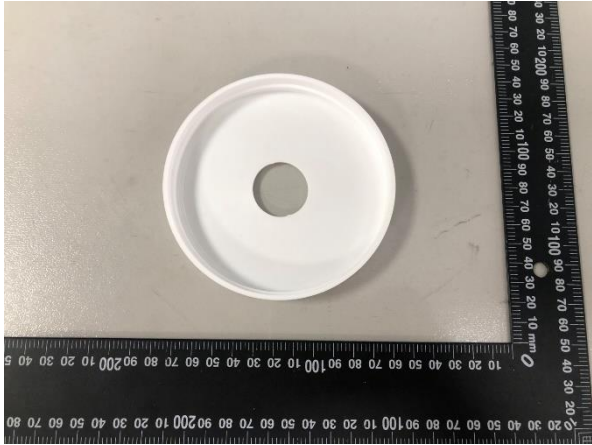
Sample 2



Sample 3



Above samples which are by client's declaration made of same material as tested Sample 3.



Sample 4



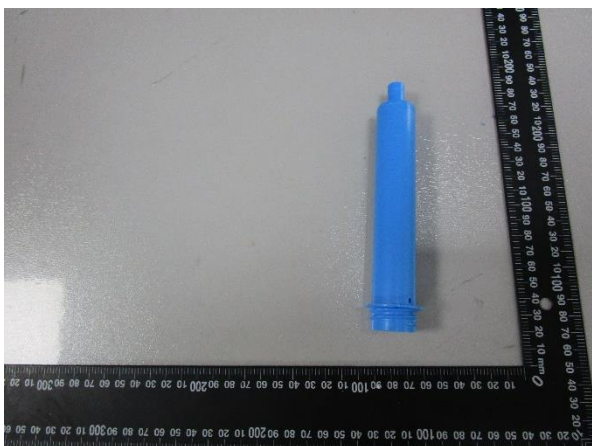
Above samples which are by client's declaration made of same material as tested Sample 4.



Sample 5



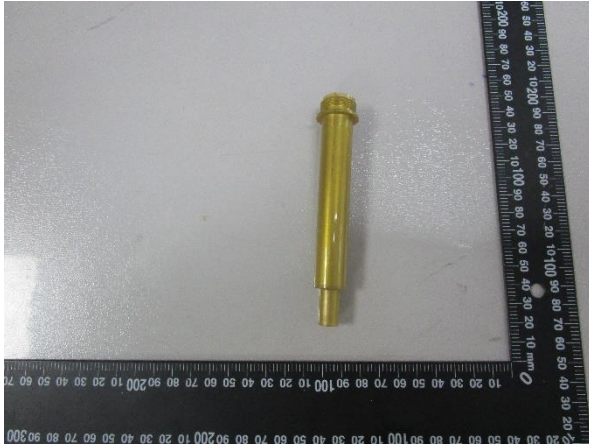
Above samples which are by client's declaration made of same material as tested Sample 5.



Sample 6



Above samples which are by client's declaration made of same material as tested Sample 6.



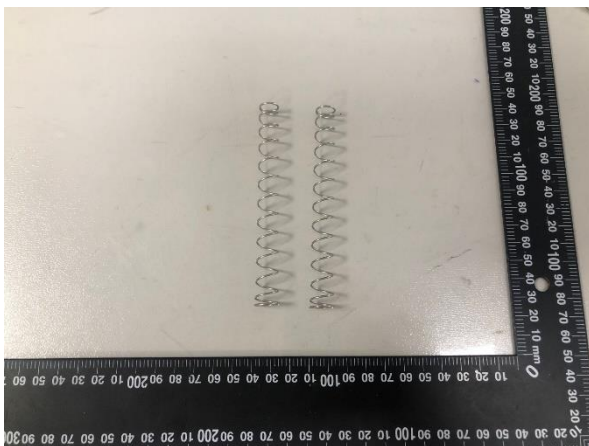
Sample 7



Above samples which are by client's declaration made of same material as tested Sample 7.



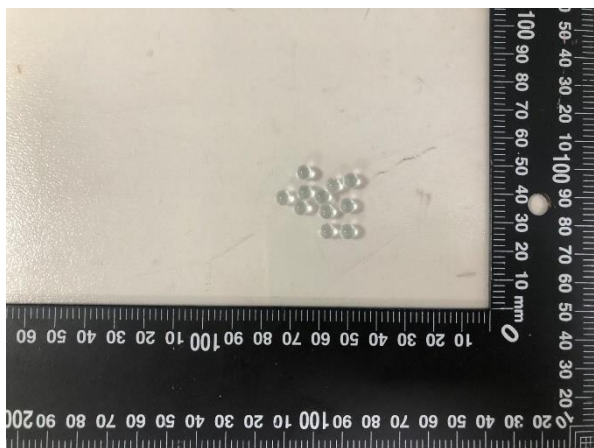
Sample 8



Sample 10



Above samples which are by client's declaration made of same material as tested Sample 10.



Sample 11



UKS10



UKS30



UKR30



UKM30



UKFND30

- END -

General Terms and Conditions of Business of TÜV Rheinland in Greater China

1. **Scope**
1.1 These General Terms and Conditions of Business of TÜV Rheinland in Greater China ("GTBC") shall apply to all contracts for the provision of services by TÜV Rheinland in Greater China as applicable as the case may be ("TÜV Rheinland"). The Greater China hereafter refers to Mainland China, Hong Kong and Taiwan. The client hereunder includes:
(i) a natural person capable to form legally binding contracts under the applicable laws who concludes the contract for the purpose of a daily use;
(ii) the incorporated or unincorporated entity duly organized validly existing and capable to form legally binding contracts under the applicable law.
1.2 The following terms and conditions apply to all services including consultancy services, information, deliveries and similar services as well as ancillary services and other secondary obligations provided within the scope of contract performance.
1.3 Any standard terms and conditions of the client or any third party shall not apply and shall have no effect if they conflict with the standard terms and conditions of TÜV Rheinland. The client's part of the contract if TÜV Rheinland does not explicitly object to them.
1.4 In the context of an ongoing business relationship with the client, this GTBC shall also apply to future contracts with the client without TÜV Rheinland having to refer to them separately in each individual case.

2. **Quotations**
2.1 Unless otherwise agreed, all quotations submitted by TÜV Rheinland can be changed by TÜV Rheinland without notice prior to its acceptance and confirmation by the other party.
3. **Coming into effect and duration of contracts**
3.1 The contract shall come into effect for the agreed terms upon the quotation letter of TÜV Rheinland or a separate contractual document being signed by both contracting parties or upon the works required by the client being carried out by TÜV Rheinland. If the client instructs TÜV Rheinland without receiving a quotation from TÜV Rheinland (quotation), TÜV Rheinland is, in its sole discretion, entitled to accept the order by giving written notice such as acceptance (including notice sent via electronic means) or by performing the requested services.
3.2 The contract term starts upon the coming into effect of the contract in accordance with article 3.1 and shall continue for the term agreed in the contract.
3.3 If the contract provides for an extension of the contract term, the contract term will be extended by the term provided for in the contract unless terminated in writing by either party with a three-month notice prior to the end of the contractual term.

4. **Scope of service**
4.1 The scope and type of the services to be provided by TÜV Rheinland shall be specified in the contractually agreed service scope of TÜV Rheinland by both parties. If no such separate service scope of TÜV Rheinland exists, then the written confirmation of order by TÜV Rheinland shall be binding for the service. The scope of the services shall extend beyond the scope of the service description (e.g. checking the correctness and functionality of parts, products, processes, installations, organizations notified in the service description, as well as the intended use and application of such) are not noted. In particular, no responsibility is assumed for the design, selection of materials, construction, installation of an examined part, product, process or plant, unless it is expressly stated in the order.
4.2 The agreed services shall be performed in compliance with the regulations in force at the time the contracts entered into.
4.3 TÜV Rheinland is entitled to determine, in its sole discretion, the method and nature of the assessment unless otherwise agreed in writing or if mandatory provisions require a specific procedure to be followed.
4.4 On execution of the work there shall be no simultaneous assumption of any guarantee of the correctness (particularly) and working order of either tested or examined parts nor installation as a whole or the downstream process or operation, organization, use and application in accordance with regulations, nor of the systems on which the installation is based. In particular, TÜV Rheinland shall assume no responsibility for the construction, selection of materials and assembly of installations examined, nor for their use and application in accordance with regulations, unless these questions are expressly covered by the contract.
4.5 In the case of inspection work, TÜV Rheinland shall not be responsible for the accuracy or checking of the safety programmes or safety regulations on which the inspections are based unless otherwise expressly agreed in writing.
4.6 If mandatory legal regulations and standards or official requirements for the agreed service scope change after conclusion of the contract with a written notice to the client, TÜV Rheinland shall be entitled to additional remuneration for resulting additional expenses.
4.7 The services to be provided by TÜV Rheinland shall be provided by TÜV Rheinland exclusively with the client. A contract of third parties with the services of TÜV Rheinland, such as making available of and justifying confidence in the work results (test reports, test results, expert reports, etc.) is not part of the agreed services. This also applies if the client passes on work results - in full or in extracts - to third parties in accordance with clause 11.4.
4.8 The client understands and agrees that the services to be provided by TÜV Rheinland the client may need to sign one or more contracts/agreements with a third party(ies) and establish legal relationships with those third party(ies) according to such contracts/agreements. TÜV Rheinland will merely bear the corresponding legal liability according to this contract and the client shall be responsible for the completion of the service process. If the relevant services are not directly provided by TÜV Rheinland (including but not limited to any testing and certification services to be provided by third testing and certification bodies), TÜV Rheinland will provide the client as agent for such relevant services. In order to achieve the purpose of the contract, the client hereby agrees that TÜV Rheinland is authorized to subcontract the services to be provided by TÜV Rheinland shall not bear any responsibility and/or risk for any services to be provided by third parties (including but not limited to the testing and/or certification services to be entrusted and/or applied for by our company on behalf of the client to other third testing and/or certification services provided by any other third party(ies), etc.). Besides, the client shall be liable in accordance with the relevant laws and regulations and/or the terms under the contract if the client is required to conduct any annual review/surveillance of the relevant testing and/or certification service results and pay the relevant fees in accordance with the contract. If the client is required to conduct any certification tests, such fees are not within the scope of the contract price, the client shall timely perform the obligation of such annual review/surveillance and pay the corresponding fees. If the client fails to perform such obligations of the annual review/surveillance fees, payment, it may result in the client's consent to the suspension, cancellation or invalidity of testing and/or certification results, which shall not be borne by TÜV Rheinland.
4.9 For the service content agreed in the contract, if the client requires TÜV Rheinland to deliver relevant test samples and/or test results to the client or to a third party designated by the client, TÜV Rheinland shall not take any responsibility or risks for any problems during such delivery and the transportation process (including but not limited to any loss or damages of the samples and/or materials, etc.). Besides, the relevant freight fees shall be borne by the client.

5. **Performance periods/dates**
5.1 The contractually agreed periods/dates of performance are based on estimates of the work involved which are prepared in line with the details provided by the client. They shall only be binding if confirmed as binding by TÜV Rheinland in writing.
5.2 If binding periods of performance are not specified in the contract, shall not constitute the client has submitted all required documents to TÜV Rheinland.
5.3 Articles 5.1 and 5.2 also apply, even without express approval by the client, to all extensions of agreed periods/dates of performance not caused by TÜV Rheinland.
5.4 TÜV Rheinland is not responsible for a delay in performance, in particular if the client has not fulfilled his duties to cooperate in accordance with clause 6.1 or if he has not done so in time and in particular, has not provided TÜV Rheinland with all documents and information required for the performance of the service as specified in the contract.
5.5 If the performance of the service is delayed due to foreseeable circumstances such as force majeure, strikes, business disruptions, governmental regulations, transport obstacles, etc., TÜV Rheinland is entitled to postpone performance for a reasonable period of time which corresponds at least to the duration of the hindrance plus any time period which may be required to resume performance.
5.6 If the client is obliged to comply with legal, officially prescribed and/or by the acceptor prescribed deadlines, it is the client's responsibility to agree on performance dates with TÜV Rheinland, which enable the client to comply with the legal and/or officially prescribed deadlines. TÜV Rheinland assumes no responsibility in this respect unless TÜV Rheinland expressly agreed to a delay in performance, in particular if the client has not fulfilled his contractual obligation of TÜV Rheinland.

6. **The client's obligation to cooperate**
6.1 The client shall guarantee that all cooperation required on its part, its agents or third parties will be provided in a timely and complete manner.
6.2 Design documents, supplies, auxiliary staff, etc. necessary for performance of the service shall be made available free of charge by the client. Moreover, collaborative action of the client must be undertaken in accordance with legal provisions, standards, safety regulations and accident prevention instructions. And the client represents and warrants that:
a) it has required statutory qualifications;
b) the product/service or management system to be certified complies with applicable laws and regulations; and
c) it doesn't have any legal and dishonest behaviours or is not included in the list of Enterprises with Serious Illegal and Dishonest Acts of People's Republic of China.
If the client breaches the aforesaid representations and warranties, TÜV Rheinland is entitled to (i) immediately terminate the contract without prior notice; and (ii) withdraw the issued testing report/certificates if any.
6.3 The client shall bear the additional costs incurred account of work having to be redone or being delayed as a result of lack, incorrect or incomplete information provided by or lack of proper cooperation from the client. Even where a fixed or maximum price is agreed, TÜV Rheinland shall be entitled to charge extra fees for such additional expense.

7. **Pricing**
7.1 If the scope of performance is not laid down in writing when the order is placed, invoicing shall be based on costs actually incurred. If no price is agreed in writing, invoicing shall be made in accordance with the price list of TÜV Rheinland valid at the time of performance.
7.2 Unless otherwise agreed, work shall be invoiced according to the progress of the work.
7.3 If the execution of the work is delayed due to the client's fault, the client or the acceptor or the agreed fixed price exceeds €2,500.00 or equivalent value in local currency, TÜV Rheinland may demand payments on account in instalments.
8. **Payment terms**
8.1 All invoice amounts shall be due for payment within 30 days of the invoice date without deduction on receipt of the invoice. No discounts and rebates shall be granted.
8.2 Payments shall be made to the bank account of TÜV Rheinland as indicated on the invoice, stating the invoice and client numbers.
8.3 In cases of delay in payment, TÜV Rheinland shall be entitled to claim default interest at the applicable short-term loan interest rate publicly announced by a reputable commercial bank in the country where TÜV Rheinland is located. At the same time, TÜV Rheinland reserves the right to claim further damages.
8.4 Should the client default in the invoice despite being granted a reasonable grace period, TÜV Rheinland shall be entitled to cancel the contract, withdraw the certificate, claim damages for non-performance and refuse to continue performance of the contract.
8.5 The provisions set forth in article 8.4 shall also apply in cases involving returned checks, cessation of payment, insolvency proceedings, or other similar circumstances, including but not limited to cases in which the commencement of insolvency proceedings has been disseminated to lack of assets.
8.6 Objections to the invoices of TÜV Rheinland shall be submitted in writing within two weeks of receipt of the invoice.
8.7 TÜV Rheinland shall be entitled to demand appropriate advance payments.
8.8 TÜV Rheinland shall be entitled to raise its fees at the beginning of a month if overheads and/or purchase costs have increased. In this case, TÜV Rheinland shall notify the client in writing of the rise in fees. This notification shall be issued one month prior to the date on which the rise in fees shall come into effect (period of notice of

changes in fees). If the rise in fees remains under 5% per contractual year, the client shall not have the right to terminate the contract. If the rise in fees exceeds 5% per contractual year, the client shall be entitled to terminate the contract at the end of the period of notice of changes in fees. If the contract is not terminated, the changed fees shall be deemed to have been agreed upon the time of the expiry of the notice period.
8.9 Only legally established and undisputed claims may be offset against claims by TÜV Rheinland.
8.10 TÜV Rheinland shall have the right at all times to set off any amount due or payable by the client, including but not limited to set off against any fees paid by the client under any contracts, agreement and/or orders/quotations reached with TÜV Rheinland.

9. **Acceptance of work**
9.1 The client's order is considered work which is complete in itself may be presented by TÜV Rheinland for acceptance as an instalment. The client shall be obliged to accept it immediately.
9.2 If acceptance is required contractually agreed in an individual case, this shall be deemed to have taken place when the client completes and hands over the work, unless the client refuses acceptance within this period stating at least one fundamental breach of contract by TÜV Rheinland.
9.3 The client is not entitled to refuse acceptance due to insignificant breach of contract by TÜV Rheinland.
9.4 If acceptance is excluded according to the nature of the work/performance of TÜV Rheinland the completion of the work shall take its place.
9.5 During the Follow-Audit stage, if the client was unable to make use of the time windows provided for within the scope of a certification procedure for auditing performance by TÜV Rheinland and the certificate is therefore to be withdrawn (e.g. performance of surveillance audits), or if the client cancels or postpones a confirmed audit date within two (2) weeks before the agreed date, TÜV Rheinland is entitled to immediately charge a lump-sum compensation of 10% of the order amount as compensation for expenses. The client reserves the right to request a refund of the said compensation if the client is only a considerably lower damage than the above lump sum.
9.6 Insofar as the client has undertaken in the contract to accept services, TÜV Rheinland shall also be entitled to charge lump-sum damages in the amount of 10% of the order amount as compensation for expenses if the client does not use the service within one year after the order has been placed. The client reserves the right to prove that the TÜV Rheinland has incurred no damage whatsoever or only a considerably lower damage than the above mentioned lump sum.

10. **Confidentiality**
10.1 For the purpose of these terms and conditions, "confidential information" means all know-how, trade secrets, documents, images, drawings, expertise, information, data, test results, reports, samples, project documents, pricing and financial information, customer and supplier information, and marketing techniques and materials, tangible or intangible, that are supplied to or received by the client from the receiving party (the "disclosing party") or the receiving party ("receiving party"), in writing or orally, in printed or electronic form. Confidential information is expressly not the data and know-how collected, compiled or otherwise obtained by TÜV Rheinland (non-personal and non-proprietary to the client) within the scope of the provision of services (including but not limited to (i) the results of the review and/or testing and/or pass on the data obtained in connection with the provision of services for the purpose of developing new services, improving services and analyzing the provision of services.
10.2 The disclosing party shall mark all confidential information disclosed in written form as confidential before or during the review and/or testing and/or pass on. Confidential information transmitted by email if confidential information is disclosed orally, the receiving party shall be appropriately informed in advance and the disclosing party shall confirm in writing the confidentiality nature of the information within five working days of oral disclosure. Where the disclosing party fails to do so within the stipulated period, the receiving party shall not be bound by any confidentiality obligation. Confidential information shall not be disclosed or used in any way by the receiving party (including but not limited to using a third party platform and/or system (e.g. WeChat, etc. Unauthorized by TÜV Rheinland) to send any confidential information to TÜV Rheinland. Instead, the client shall send any confidential information to company email of TÜV Rheinland employees through its company email. If the client suffers from any losses or damages due to any full or leakages to be caused by the adoption of any unauthorized confidential information string methods mentioned above, TÜV Rheinland shall be waived for any compensation liabilities.

10.3 All confidential information which the disclosing party transmits or otherwise discloses to the receiving party and which is subject to the confidentiality obligations of the disclosing party, a) may only be used by the receiving party for the purposes of performing the contract unless expressly otherwise agreed in writing by the disclosing party;
b) may not be copied, distributed, published or otherwise disclosed by the receiving party without the prior written consent of the disclosing party; and
c) may not be used by the receiving party with the same level of confidentiality as the receiving party to protect its own confidential information, but never with a lesser level of confidentiality than that which is reasonably required.
10.4 The receiving party may disclose any confidential information received from the disclosing party only to those of its employees who need this information to perform the services required for the contract and only to those employees who are necessary for the employees to observe the same level of secrecy as set forth in this confidentiality clause.
10.5 Information for which the receiving party can furnish proof that:
a) it was generally known at the time of disclosure or has become general knowledge without the fault of the receiving party;
b) it was disclosed to the receiving party by a third party entitled to disclose this information or
c) the receiving party already possessed this information prior to disclosure by the disclosing party, shall not be subject to the confidentiality obligations of the disclosing party.

10.6 All confidential information shall remain the property of the disclosing party. The receiving party hereby agrees to indemnify and hold the disclosing party harmless, including all costs, for the disclosing party, and/or (ii) on request of the disclosing party, to destroy all confidential information, including all copies, and confirm the destruction of this confidential information to the disclosing party in writing, at any time if so requested by the disclosing party but the latest and without special request after termination or expiry of the contract. This does not extend to include reports and certificates prepared for the client solely for the purpose of fulfilling the obligations under the contract, which shall remain with the client. However, TÜV Rheinland is entitled to make file copies of such reports, certificates and confidential information that forms the basis for preparing these reports and certificates in order to verify the correctness of the results of the review and/or documentation purpose required by laws, regulations and the requirements of working procedures of TÜV Rheinland.
10.7 From the start of the contract for a period of three years after termination or expiry of the contract, the receiving party shall maintain the confidentiality of confidential information and shall not disclose this information to any third parties or use it for itself.

11. **Copyrights and rights of use, publications**
11.1 TÜV Rheinland shall retain all exclusive copyrights in the reports, expert reports, opinions, test reports, results, results, calculations, presentations, etc. prepared by TÜV Rheinland, unless otherwise agreed in writing. The client shall be responsible for the costs of the copyright. TÜV Rheinland is free to grant others the rights to use the work results for individual or all types of uses ("right of use")
11.2 The client receives a simple, unlimited, non-transferable, non-sublicensable right of use to the work results for the purposes of the contract, provided that the client has not expressly agreed by the parties in a separate agreement. The client may only use such reports, expert reports, opinions, test reports, results, results, calculations, presentations, etc. prepared within the scope of the contract or the contractually agreed purpose.
11.3 The client is not entitled to generate or use any work results as required in clause 11.2 of the GTBC is subject to full payment of the remuneration agreed in favour of TÜV Rheinland.
11.4 The client may use work results only completely and unshortened. The client may only pass the work results in full unless TÜV Rheinland has given its prior written consent to the partial use of the work results for advertising purposes or for other purposes.
11.5 A publication or duplication of the work results for advertising purposes or any further use of the work results beyond the scope required in clause 11.2, and any quotation of the introduction of TÜV Rheinland need the prior written approval of TÜV Rheinland in each individual case. Besides, the client must ensure that the aforesaid shall comply with relevant applicable laws, regulations and/or other rules (including but not limited to specific applicable testing and certification rules, etc.).
11.6 TÜV Rheinland may revoke a once given approval according to clause 11.5 at any time without stating reasons. In this case, the client is obliged to stop the transfer of the work results immediately at his own expense as far as possible to further publications.
11.7 The consent of TÜV Rheinland to publication or duplication of the work results does not entitle the client to use the corporate logo, corporate design or testification mark of TÜV Rheinland.

12. **Liability of TÜV Rheinland**
12.1 In respect of the legal basis, to the fullest extent permitted by applicable law, in the event of a breach of contractual obligations or tort, the liability of TÜV Rheinland for all damages, losses and reimbursement of expenses caused by TÜV Rheinland, its legal representatives and employees shall be limited to: (i) in the case of a contract with a fixed overall fee, the fees the overall fee for the entire contract; (ii) in the case of a contract for an annual recurring services, the agreed annual fee; (iii) in the case of a contract expressly charged on a time and material basis, a maximum of 20,000 Euro or equivalent amount in local currency; and (iv) in the case of a framework agreement or provider of the possibility of placing individual orders, the agreed maximum of the individual order and the maximum of the total amount of all orders. Notwithstanding the above, in the event that the total and accumulated liability calculated according to the foregoing provisions exceeds 2.5 Million Euro or equivalent amount in local currency, the total and accumulated liability of TÜV Rheinland shall be only limited to and shall not exceed the said 2.5 Million Euro or equivalent amount in local currency.
12.2 The limitation of liability according to article 12.1 above shall not apply to damages and/or losses caused by malice, intent or gross negligence on the part of TÜV Rheinland or its legal representatives. Such limitation shall not apply to damages for a person's death, physical injury or illness.
12.3 In cases involving a fundamental breach of contract, TÜV Rheinland will be liable even where minor negligence is involved. For this purpose, a "fundamental breach" is breach of a material contractual obligation which results in a fundamental breach of the contract. The amount of any claim for damages for a fundamental breach of contract shall be limited to the amount of damages reasonably foreseen as a possible consequence of such breach of contract at the time of the breach (reasonably foreseeable damages), unless any of the circumstances described in article 12.2 applies.

12.4 TÜV Rheinland shall not be liable for the acts of the personnel made available by the client to support TÜV Rheinland in the performance of its services under the contract unless such personnel made available is regarded as vicarious agent of TÜV Rheinland. TÜV Rheinland is not liable for the acts of the personnel made available by the client under the foregoing conditions, the client's responsibility for TÜV Rheinland against any claims made by third parties arising from or in connection with such personnel's acts.
12.5 Unless otherwise contractually agreed in writing, TÜV Rheinland shall only be liable under the contract to the client.
12.6 The limitation periods for claims for damages shall be based on statutory provisions.
12.7 None of the provisions of this article 12 changes the burden of proof to the disadvantage of the client.

13. **Export control**
13.1 When passing on the services provided by TÜV Rheinland or parts thereof to third parties in Greater China or other regions, the client must comply with the respectively applicable regulations of national and international export control law.
13.2 The performance of a contract with the client is subject to the proviso that there are no obstacles to performance due to national or international foreign trade regulations or embargos and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereby by TÜV Rheinland.
14. **Data protection notice**
The client understands and agrees that TÜV Rheinland processes personal data (including but not limited to personal information) of the client and its related parties (including but not limited to the supplier of the client for the purpose of fulfilling the contract). The client confirms that it has obtained the prior consent of the data subject which entitles TÜV Rheinland to access, use, or process the personal data that the client collected or processed by itself and transferred to TÜV Rheinland. For certain purposes, the client processes sensitive personal data. TÜV Rheinland will use and process the data in accordance with the relevant legal basis. If any personal data has to be disclosed or transferred to any third party or any overseas party outside of the district in which the personal data was collected, the client also consents to the disclosure of the personal data to the prior consent of the client. The client also consents to cross-border data transmission and protection of the data in compliance with the privacy and personal data security related laws and regulations in China and the local country. TÜV Rheinland will take measures to avoid any leakage, abuse, manipulation, damage or embargos and/or sanctions. In the event of a violation, TÜV Rheinland shall be entitled to terminate the contract with immediate effect and the client shall compensate for the losses incurred thereby by TÜV Rheinland. For certain purposes, the client processes sensitive personal data. TÜV Rheinland will use and process the data in accordance with the relevant legal rights: right of information, right of decision, right of rectification, right of deletion, right of processing limitation, right of objection, right of data transferability. In addition, persons concerned by the data processing have the right to revoke their consent at any time with effect for the future, as well as the right to request the complete data processing under supervisory authority. For further details on the processing of personal data by TÜV Rheinland as the person responsible or contractor/processor, please refer to the respective data protection information. You can contact the Group Data Protection Officer of TÜV Rheinland at TÜV Rheinland, TÜV Rheinland, TÜV Rheinland, TÜV Rheinland, TÜV Rheinland, TÜV Rheinland AG, c/o Group Data Protection Officer, Am Grauen Stein, 51105 Cologne, Germany.

15. **Retention of test material and documentation**
15.1 The client understands and agrees that TÜV Rheinland for testing will be scrapped following testing or will be returned to the client at the client's expense. The only exceptions are test samples, which are placed in storage on the basis of statutory regulations or of another agreement with the client.
15.2 The client agrees that all samples are stored at the premises of TÜV Rheinland. The cost of placing and testing sample into storage will be disclosed to the client in the quotation.
15.3 Reference samples or documentations are given to the client to be placed in storage at their premises, the reference samples or documentations must be made available to TÜV Rheinland upon request promptly and free of charge. If the client, in response to such a request, is incapable of making available the reference samples and/or documentations at liability claims for material and pecuniary damage resulting from the respective testing and certification that is brought forward by the client against TÜV Rheinland shall be voided.
15.4 The retention period for the documentation shall be 10 (ten) years after the expiry of the last certificate issued. The client must ensure that the applicable legal requirements for EU/EEC certificates conformly and GS-mark certificates.
15.5 The costs of the handover and dispatch of the test samples for storage on the client's premises are borne by the client. TÜV Rheinland will be liable for the loss of test samples or reference samples from the laboratories or warehouses of TÜV Rheinland only in case of gross negligence.

16. **Termination of the contract**
16.1 Notwithstanding clause 3.3 of the GTBC, TÜV Rheinland and the client are entitled to terminate the contract in its entirety or, in the case of services combined one contract each of the combined parts of the contract individually and severally by the termination of the continuation of the remaining services with six (6) months' notice to the end of the contractually agreed term. The notice period shall be shortened to six (6) weeks in case TÜV Rheinland is prevented from performing the services due to a loss or a suspension of its accreditation or notification for a period of more than three months. The client reserves the right to terminate the contract which includes but not limited to the following:
a) the client does not immediately notify TÜV Rheinland of changes in the conditions within the company which are relevant for certification or signs of such changes;
b) the client does not immediately notify TÜV Rheinland of changes in the conditions of the contract in the event of several consecutive delays in payment (at least three times);
c) a substantial deterioration of the financial circumstances of the client occurs and as a result the payment claims of TÜV Rheinland under the contract are considerably endangered and the client is unable to pay the claims of TÜV Rheinland for a period of more than three months;
d) in the event of a serious misrepresentation, be it by intentional fraud or grossly negligent behavior of the managers, employees or agents of the client;
e) if TÜV Rheinland, for reasons beyond its control, is temporarily or finally not able or entitled to issue certificates or to perform the services, or if the client is subject to force majeure, government interference, sanctions, loss of accreditation or certification, or other.
16.2 In the event of termination with written notice by TÜV Rheinland or gross cause, TÜV Rheinland shall be entitled to a lump-sum claim for damages against the client if the conditions of a claim for damages exist in this case, the client shall also owe 15% of the remuneration to be paid for gross cause of TÜV Rheinland. The client reserves the right to prove that there is no damage or a considerably lower damage. TÜV Rheinland reserves the right to prove a considerably higher damage in individual cases.
16.3 TÜV Rheinland is also entitled to terminate the contract with written notice if the client has not fulfilled its contractual obligations within the time windows for auditing and/or certification by TÜV Rheinland within the scope of a certification procedure and the certificate therefore has to be withdrawn (for example during the performance of monitoring audits). Clause 16.3 applies accordingly.

17. **Force majeure**
17.1 "Force majeure" means the occurrence of an event or circumstance that prevents or impedes a Party from performing one or more of its contractual obligations under the contract, if and to the extent that the Party proves: (a) that such impediment is beyond its reasonable control; and (b) that it has taken reasonable steps to overcome the impediment or to mitigate the consequences of the contract and (c) that the effects of the impediment could not reasonably have been avoided or overcome by the affected Party.
17.2 In the absence of proof to the contrary, the following events causing a Party shall be presumed to fulfil conditions (a) and (b) under paragraph 17.1: (i) war (whether declared or not), hostilities, invasions, acts of foreign enemies, acts of piracy, (ii) civil war, riot, rebellion and revolution, military or usurped power, insurrection, act of terrorism, sabotage or piracy, (iii) currency and trade restriction, embargo, sanction, (iv) act of authority whether lawful or unlawful, compliance with any law or governmental order, epidemic, pestilence, plague, quarantine, epidemic, pandemic, epidemic, epidemic, natural disaster or extreme natural event (v) explosion, fire, destruction of equipment, prolonged breakdown of transport, telecommunication, information system or facility, (vi) general labor disturbance such as boycott, strike and lock-out, go-slow, occupation of factories and premises.

17.3 The Party successfully invoking this Clause is relieved from its duty to perform its obligations under the contract from any liability in damages or from any other contractual remedy for breach of contract, from the time at which the impediment causes inability to perform provided that the notice thereof is given without undue delay. If notice thereof is given without undue delay, the Party shall be relieved from its liability in damages or from any other remedy. Where the effect of the impediment or event invoked is temporary, the above consequences shall apply only so long as the impediment invoked impedes performance by the affected Party. Where the duration of the impediment invoked has the effect of substantially depriving the contracting Party of its contractual benefits, the affected Party shall be entitled to terminate either Party has the right to terminate the contract by notification within a reasonable period to the other Party. Unless otherwise agreed, the Parties expressly agree that the contract may be terminated by either Party if the duration of the impediment exceeds 120 days.

18. **Hardship**
18.1 The Parties are bound to perform their contractual duties even if events have rendered performance more onerous than could reasonably have been anticipated at the time of the conclusion of the contract.
18.2 Notwithstanding paragraph 18.1 of this Clause, where a Party proves that:
(a) the continued performance of its contractual duties has become excessively onerous due to an event beyond its reasonable control which it could not reasonably have been expected to have taken into account at the time of the conclusion of the contract and that
(b) it could not reasonably have avoided or overcome the event or its consequences, the Parties are entitled to renegotiate the contract, or, if the renegotiation fails, to negotiate alternative contractual terms which reasonably avoid to overcome the consequences of the event.
18.3 Where Clause 18.2 applies, but where the Parties have been unable to agree alternative contractual terms as provided in that paragraph, the Party invoking this Clause is entitled to terminate the contract but cannot request adaptation by the judge or arbitrator without the agreement of the other Party.

19. **Partial invalidity, written form, place of jurisdiction and dispute resolution**
19.1 All amendments and supplements must be in writing in order to be effective. This also applies to amendments and supplements to this Clause 17.1.
19.2 If one or several of the provisions under the contract and/or these terms and conditions be or become ineffective, the contracting parties shall replace the invalid provision with a legally valid provision that comes closest to the content of the invalid provision in legal and contractual terms.
19.3 Unless otherwise stipulated in the contract, the governing law of the contract and these terms and conditions shall be chosen following the rules as below:
a) if TÜV Rheinland in question is legally registered and existing in the People's Republic of China, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the law of the People's Republic of China;
b) if TÜV Rheinland in question is legally registered and existing in Taiwan, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Taiwan;
c) if TÜV Rheinland in question is legally registered and existing in Hong Kong, the contracting parties hereby agree that the contract and these terms and conditions shall be governed by the laws of Hong Kong.

19.4 Any dispute in connection with the contract and these terms and conditions or the execution thereof shall be referred to arbitration through neutral arbitration. Unless otherwise stipulated in the contract, no settlement or agreement in respect of the extension of the negotiation period can be reached within two months of the arising of the dispute, the dispute shall be submitted:
a) in the case of TÜV Rheinland being legally registered and existing in the People's Republic of China, to China International Economic and Trade Arbitration Commission (CIETAC) to be settled by arbitration under the Arbitration Rules of CIETAC in force when the arbitration is submitted. The arbitration shall take place in Beijing, Shanghai, Shenzhen or Chongqing as appropriate chosen by the contracting party;
b) in the case of TÜV Rheinland in question being legally registered and existing in Taiwan, to Chinese Arbitration Association, Taipei to be arbitrated in accordance with its then current Rules of Arbitration. The arbitration shall take place in Taipei.
c) in the case of TÜV Rheinland being legally registered and existing in Hong Kong, to Hong Kong International Arbitration Centre (HKIAC) to be settled by arbitration under the HKIAC Administered Arbitration Rules in force when the Notice of Arbitration is submitted in accordance with these rules. The arbitration shall take place in Hong Kong.

The decision of the relevant arbitration tribunals shall be final and binding on both parties. The arbitration fee shall be borne by the losing party.