

Test Report

Report No.: RGST210706601R01

Revision Date: Aug 06, 2021

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Instead of RGST210706601

Date: Jul 27, 2021

Applicant : Shenyang Great Wall Filtration Co., Ltd
Address : 45# Yalujiang North Street, Huanggu District, shenyang

Report on the submitted sample(s) said to be:

Sample(s) Name : Fine filter cardboard
Destination country : Germany
Sample(s) received date : Jul 06, 2021
Testing period : From Jul 06, 2021 to Jul 09, 2021

Test Request

Conclusion

- | | |
|--|------|
| (1) As specified by client, to do the Sensory Test in the submitted sample(s) in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments. | Pass |
| (2) As specified by client, to determine the Pentachlorophenol(PCP) content in the submitted sample(s) in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation. | Pass |
| (3) As specified by client, to determine the Extractable Lead, Cadmium, Mercury content in the submitted sample(s) in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation. | Pass |



Ben

Ben Miao

Technical Manager

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Shenzhen General Standard Testing Services Co., Ltd

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- (4) As specified by client, to determine the Specific Migration of Formaldehyde in the submitted sample(s) in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation.
- (5) As specified by client, to determine the Phthalates content in the submitted sample(s) in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation.
- (6) As specified by client, to determine the Specific Migration of Primary Aromatic Amine in the submitted sample(s) in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation.
- (7) As specified by client, to determine the Specific Migration of Bisphenol A(BPA) in the submitted sample(s) in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation.
- (8) As specified by client, to determine the Fastness of Fluorescence in the submitted sample(s) in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation.

Conclusion

Pass

Pass

Pass

Pass

Pass

Photograph(s) of Sample



GST authenticate the photo on original report only

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Specimen Description:

No.	Test part(s) name
1	Khaki paper board (Material: Paper board)

Results:

(1) Sensory Test (Odour and Taste)- German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation

Test Method: With reference to EN 1230-1:2009&EN 1230-2: 2009

Parameter	Food Simulant	Maximum Permissible Limit	Result(s)
			1
Odour transfer into foodstuff through simulant	0	2.5 Scale	0
Taste transfer into foodstuff through simulant	0		0

Scale: 0 = no perceptible off-odour(or taste transfer);

1 = off-odour(or taste transfer) just perceptible(but still difficult to define);

2 = slight off-odour(or taste transfer);

3 = distinct off-odour(or taste transfer);

4 = strong off-(or taste transfer)

-Sensory Test is not included in CNAS Accreditation scope

(2) Pentachlorophenol(PCP) content- German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation

Test Method: With reference to ISO 15320: 2011

Test item(s)	Unit	MDL	Maximum Permissible Limit	Result(s)
				1
Pentachlorophenol(PCP)	mg/kg	0.1	0.15	N.D.

- PCP is not included in CNAS Accreditation scope

(3) Extractable Lead, Cadmium, Mercury content -- German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation

Test Method: With reference to EN 645: 1994& EN12497:2005

Test Condition: Water, 23°C, 24 hours

Test Instrument: Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

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Test item(s)	Unit	MDL	Maximum Permissible Limit	Result(s)
				1
Lead(Pb)	mg/kg	0.001	3	N.D.
Cadmium(Cd)	mg/kg	0.001	0.5	N.D.
Mercury(Hg)	mg/kg	0.001	0.3	N.D.

Test Method: With reference to BS EN 647: 1994& BS EN12497:2005

Test Condition: Water, 80°C, 2 hours

Test Instrument: Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Test item(s)	Unit	MDL	Maximum Permissible Limit	Result(s)
				1
Lead(Pb)	mg/kg	0.001	3	N.D.
Cadmium(Cd)	mg/kg	0.001	0.5	N.D.
Mercury(Hg)	mg/kg	0.001	0.3	N.D.

- Extractable Lead, Cadmium, Mercury content is not included in CNAS Accreditation scope

(4) Specific migration of Formaldehyde- German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation

Test Method: With reference to EN 645:1994 & EN 1541:2001

Test condition: 23°C, 24 hours

Test Instrument: Ultraviolet and visible spectrophotometer (UV-Vis)

Test item(s)	Unit	MDL	Maximum Permissible Limit	Result(s)
				1
Specific migration of Formaldehyde	mg/dm ²	0.1	1	N.D.

Test Method: With reference to EN 647:1994 & EN 1541:2001

Test condition: 80°C, 2 hours

Test Instrument: Ultraviolet and visible spectrophotometer (UV-Vis)

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Test item(s)	Unit	MDL	Maximum Permissible Limit	Result(s)
				1
Specific migration of Formaldehyde	mg/dm ²	0.1	1	N.D.

- Specific migration of Formaldehyde content is not included in CNAS Accreditation scope

(5) Phthalates content - German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation

Test Method: With reference to EN 14372:2004

Test instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Maximum Permissible Limit	Result(s)
				1
Butyl benzyl phthalate (BBP)	%	0.005	0.1	N.D.
Dibutyl phthalate (DBP)	%	0.005	0.05	N.D.
Bis (2-ethylhexyl) phthalate (DEHP)	%	0.005	0.1	N.D.
Di-iso-nonyl phthalate (DINP)	%	0.005	0.1	N.D.
Diisodecyl phthalate (DIDP)	%	0.005	0.1	N.D.

(6) Specific Migration of Primary Aromatic Amine- German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation

Test Method: With reference to BS EN 13130-1:2004

Test condition: 3% (w/v)acetic acid in aqueous solution, 40°C,24hour

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Test item(s)	Unit	MDL	Maximum Permissible Limit	Result(s)
				1
Specific Migration of Primary Aromatic Amine(PAA)	mg/kg	0.01	Not Detected	N.D.

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(7) Specific Migration of Bisphenol A(BPA) - German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation

Test Method: With reference to BS EN 13130-1:2004 & CEN/TS 13130-13:2005

Test condition: 3% (w/v)acetic acid in aqueous solution, 40°C, 24hour

Test Instrument: High Performance Liquid Chromatography (HPLC)

Test item(s)	Unit	MDL	Limit	Result(s)
				I
Bisphenol A(BPA)	mg/kg	0.01	0.05	N.D.

(8) Fastness of Fluorescence - German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30&31 with amendments and BfR recommendation

Test Method: With reference to EN 648: 2018

Test condition: Long duration contact: 24 h at (23 ± 2) °C

Parameter	Simulant Used	Result	Maximum Allowable Limit
		I	
Fastness of Fluorescence	Distilled water or deionized water	Grade 5	No less than Grade 5
	3% Acetic acid	Grade 5	
	Alkaline salt solution	Grade 5	
	Olive oil	Grade 5	

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Test Method: With reference to EN 648: 2018

Test condition: Hot contact with fatty food: 30 min at $(120 \pm 3)^\circ\text{C}$ in oilHot contact with moisture food: 30 min at $(90 \pm 3)^\circ\text{C}$ in water

Parameter	Simulant Used	Result	Maximum Allowable Limit
		1	
Fastness of Fluorescence	Distilled water or deionized water	Grade 5	No less than Grade 5
	Olive oil	Grade 5	

Scale: 5 = negligible or no change or staining;
4 = slightly changed or stained;
3 = noticeably changed or stained;
2 = considerably changed or stained;
1 = much changed or stained

- Fastness of Fluorescence content is not included in CNAS Accreditation scope

Note:

- mg/kg=milligram per kilogram
- mg/dm^2 = milligram per square decimeter
- N.D. =Not Detected (<MDL)
- MDL=Method Detection Limit

-This test report supersedes test report No. RGST210706601, the original test report is void.

*** End of Report ***

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