

Test Report

No. CANEC1613313703

Date: 22 Jul 2016

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ZHONGSHAN JINHAO CHEMICAL ENGINEERING CO.,LTD.

SHENGHUI NORTH INDUSTRIAL PARK,NANTOU TOWN,ZHONGSHAN CITY GUANGDONG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as : Non cohesive coating

SGS Job No. : CP16-043597 - GZ
Model No. : JH.O-2303A
Client Ref. Info. : SEE REMARK
Date of Sample Received : 08 Jul 2016
Testing Period : 08 Jul 2016 - 18 Jul 2016
Test Requested : Selected test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Results : Please refer to next page(s).

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Guangzhou Branch Testing Center Chemical Laboratory.

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Result Summary :

Test Requested	Conclusion
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2004) 1 and BfR recommendation – Overall migration	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Colour Release	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation-Specific Migration of Chromium (III) and Chromium (VI)	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Specific Migration of Polynuclear Aromatic Hydrocarbons (PAHs)	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Specific Migration of Perfluorooctanoic acid (PFOA) and Perfluorooctane Sulfonates(PFOS)	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation–Specific Migration of Heavy Metal	PASS
German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with Amendments and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9– Specific migration of heavy metal	PASS

Conclusion :

The tested parameters comply with the requirements stated in German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB) with amendments, Section 30 & 31, and Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004.



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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Alpher Qiu
Approved Signatory

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN16-133137.001	Black coated metal pan(inner)	metal+non-stick coating

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, Council of Europe Resolution AP (2004) 1 and BfR recommendation – Overall migration

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; or EN 1186-9:2002 aqueous food simulants by article filling method; or EN 1186-14:2002 substitute test.

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	4.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS
10% Ethanol (V/V) Aqueous Solution	4.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS
95% Ethanol	6.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
Isooctane	4.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

1. mg/dm² = milligram per square decimeter
2. °C = degree Celsius
3. The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments–Sensorial examination odour and taste test

Test Method : With reference to DIN10955:2004.
 Test condition: 95°C 1.0 hr(s);
 Test media: Distilled water;
 No.of panelist: 6



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Test Item(s)	Limit	001
Sensorial examination odour (Point scale)	2.5	1.0
Sensorial examination taste (Point scale)	2.5	1.0
Comment		PASS

Notes :

Scale evaluation:

- 0: No perceptible odour
- 1: Odour just perceptible (still difficult to define)
- 2: Moderate odour
- 3: Moderately strong odour
- 4: Strong odour

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments—Colour Release

Test Method : With reference to Kunststoffe im Lebensmittelverkehr, Part B II IX.

Test Item(s)	Limit	001
Visible Color Migration in Coconut Oil	Absent	Absent
Comment		PASS
Visible Color Migration in 2% Acetic Acid (W/V)	Absent	Absent
Comment		PASS

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments and BfR recommendation-Specific Migration of Chromium (III) and Chromium (VI)

Test Method : With reference to EN13130-1:2004 for selection of test method, analysis was performed by ICP-OES & UV-Vis.

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
 Test Condition : 95 °C 1.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	sq.dm/kg	-	3.3
Extractable Chromium (VI)	Absent	mg/dm ²	0.004	Absent
Extractable Chromium (III)	0.02	mg/dm ²	0.004	<0.004



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Comment

PASS

Notes :

1. mg/dm² =milligram per square decimeter
2. °C=degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation—Specific Migration of Polynuclear Aromatic Hydrocarbons (PAHs)

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN13130-1:2004 for selection of test method, analysis was performed by GC-MS.

Sample 001

Simulant Used : 95% Ethanol
 Test Condition : 60 °C 6.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	sq.dm/kg	-	3.3
Naphthalene(NAP)	Absent	mg/kg	0.01	ND
Acenaphthylene(ANY)	Absent	mg/kg	0.01	ND
Acenaphthene(ANA)	Absent	mg/kg	0.01	ND
Fluorene(FLU)	Absent	mg/kg	0.01	ND
Phenanthrene(PHE)	Absent	mg/kg	0.01	ND
Anthracene(ANT)	Absent	mg/kg	0.01	ND
Fluoranthene(FLT)	Absent	mg/kg	0.01	ND
Pyrene(PYR)	Absent	mg/kg	0.01	ND
Benzo(a)anthracene(BaA)	Absent	mg/kg	0.01	ND
Chrysene(CHR)	Absent	mg/kg	0.01	ND
Benzo(b)fluoranthene(BbF)	Absent	mg/kg	0.01	ND
Benzo(k)fluoranthene(BkF)	Absent	mg/kg	0.01	ND
Benzo(a)pyrene(BaP)	Absent	mg/kg	0.01	ND
Benzo(e)pyrene(BeP)	Absent	mg/kg	0.01	ND
Benzo(j)fluoranthene(BjF)	Absent	mg/kg	0.01	ND
Dibenzo(a,h)anthracene(DBA)	Absent	mg/kg	0.01	ND
Benzo(g,h,i)perylene(BPE)	Absent	mg/kg	0.01	ND



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Indeno(1,2,3-c,d)pyrene (IPY) Absent mg/kg 0.01 ND
Comment **PASS**

Sample 001

Simulant Used : Isooctane
 Test Condition : 60 °C 4.0 hr(s)

Test Item(s)	Max. Permissible Limit	Unit	MDL	Test result
Migration times	-	-	-	1st
Area/Volume	-	sq.dm/kg	-	3.3
Naphthalene(NAP)	Absent	mg/kg	0.01	ND
Acenaphthylene(ANY)	Absent	mg/kg	0.01	ND
Acenaphthene(ANA)	Absent	mg/kg	0.01	ND
Fluorene(FLU)	Absent	mg/kg	0.01	ND
Phenanthrene(PHE)	Absent	mg/kg	0.01	ND
Anthracene(ANT)	Absent	mg/kg	0.01	ND
Fluoranthene(FLT)	Absent	mg/kg	0.01	ND
Pyrene(PYR)	Absent	mg/kg	0.01	ND
Benzo(a)anthracene(BaA)	Absent	mg/kg	0.01	ND
Chrysene(CHR)	Absent	mg/kg	0.01	ND
Benzo(b)fluoranthene(BbF)	Absent	mg/kg	0.01	ND
Benzo(k)fluoranthene(BkF)	Absent	mg/kg	0.01	ND
Benzo(a)pyrene(BaP)	Absent	mg/kg	0.01	ND
Benzo(e)pyrene(BeP)	Absent	mg/kg	0.01	ND
Benzo(j)fluoranthene(BjF)	Absent	mg/kg	0.01	ND
Dibenzo(a,h)anthracene(DBA)	Absent	mg/kg	0.01	ND
Benzo(g,h,i)perylene(BPE)	Absent	mg/kg	0.01	ND
Indeno(1,2,3-c,d)pyrene (IPY)	Absent	mg/kg	0.01	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation-Specific Migration of Perfluorooctanoic acid (PFOA) and Perfluorooctane Sulfonates(PFOS)



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Test Method : With reference to EN13130-1:2004 for selection of test method, analysis was performed by LC-MS.

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 95 °C 1.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	1st
Area/Volume	-	sq.dm/kg	-	3.3
Specific migration of PFOA	0.005	mg/dm ²	0.002	ND
Specific migration of PFOS	0.01	mg/kg	0.01	ND
Comment				PASS

Notes :

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German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendation—Specific Migration of Heavy Metal

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-OES.

Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 95 °C 1.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	sq.dm/kg	-	3.3
Extractable Barium	1	mg/kg	0.25	ND
Extractable Cobalt	0.05	mg/kg	0.01	ND
Extractable Copper	5	mg/kg	0.25	ND
Extractable Iron	48	mg/kg	0.25	ND



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Extractable Lithium	0.6	mg/kg	0.5	ND
Extractable Manganese	0.6	mg/kg	0.25	ND
Extractable Zinc	25	mg/kg	0.5	ND
Comment				PASS

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Test Method : With reference to EN13130-1:2004 for selection of test method; analysis was performed by ICP-OES and ICP-MS.

Sample 001:

Simulant Used : 0.5% Citric acid (W/V) aqueous solution

Test Condition : 100 °C 2.0 hr(s)

The ratio of surface area to volume was : 3.3 sq.dm/kg

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>1st + 2nd Migration</u>
Aluminium(Al)	35	mg/kg	0.2	2.2
Antimony(Sb)	0.28	mg/kg	0.02	ND
Chromium(Cr)	1.75	mg/kg	0.1	ND
Cobalt(Co)	0.14	mg/kg	0.01	ND
Copper(Cu)	28	mg/kg	0.1	ND
Iron(Fe)	280	mg/kg	0.25	0.30
Manganese(Mn)	12.6	mg/kg	0.25	ND
Molybdenum(Mo)	0.84	mg/kg	0.02	ND
Nickel(Ni)	0.98	mg/kg	0.05	ND
Silver(Ag)	0.56	mg/kg	0.03	ND
Tin (Sn)	700	mg/kg	5	ND
Vanadium(V)	0.07	mg/kg	0.005	ND
Zinc(Zn)	35	mg/kg	1	ND
Arsenic(As)	0.014	mg/kg	0.001	ND
Barium(Ba)	8.4	mg/kg	0.25	ND
Beryllium(Be)	0.07	mg/kg	0.005	ND
Cadmium(Cd)	0.035	mg/kg	0.002	ND
Lead(Pb)	0.07	mg/kg	0.005	ND
Lithium(Li)	0.336	mg/kg	0.02	ND
Mercury(Hg)	0.021	mg/kg	0.002	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>1st + 2nd Migration</u>
Thallium(Tl)	0.0007	mg/kg	0.0001	ND
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>3rd Migration</u>
Aluminium(Al)	5	mg/kg	0.2	1.1
Antimony(Sb)	0.04	mg/kg	0.02	ND
Chromium(Cr)	0.25	mg/kg	0.1	ND
Cobalt(Co)	0.02	mg/kg	0.01	ND
Copper(Cu)	4	mg/kg	0.1	ND
Iron(Fe)	40	mg/kg	0.25	ND
Manganese(Mn)	1.8	mg/kg	0.25	ND
Molybdenum(Mo)	0.12	mg/kg	0.02	ND
Nickel(Ni)	0.14	mg/kg	0.05	ND
Silver(Ag)	0.08	mg/kg	0.03	ND
Tin (Sn)	100	mg/kg	5	ND
Vanadium(V)	0.01	mg/kg	0.005	ND
Zinc(Zn)	5	mg/kg	1	ND
Arsenic(As)	0.002	mg/kg	0.001	ND
Barium(Ba)	1.2	mg/kg	0.25	ND
Beryllium(Be)	0.01	mg/kg	0.005	ND
Cadmium(Cd)	0.005	mg/kg	0.002	ND
Lead(Pb)	0.01	mg/kg	0.005	ND
Lithium(Li)	0.048	mg/kg	0.02	ND
Mercury(Hg)	0.003	mg/kg	0.002	ND
Thallium(Tl)	0.0001	mg/kg	0.0001	ND

Notes :

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2. °C = degree Celsius
3. MDL = Method Detection Limit
4. ND = Not Detected (< MDL)

Remark: Results and photo(s) of this report refer to test report CANEC1613313701



REMARK:

JH.O-2303A JH.O-2303A-1 JH.O-2303A-2 JH.O-2303A-3 JH.O-2303A-4 JH.O-2303A-5
 JH.O-2303A-6 JH.O-2303A-7 JH.O-2303A-8 JH.O-2303A-9 JH.O-2303A-10 JH.O-2303A-11
 JH.O-2303A-12 JH.O-2303A-13 JH.O-2303A-14 JH.O-2303A-15 JH.O-2303A-16 JH.O-2303A-17
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 JH.O-2303D-1 JH.O-2303D-2 JH.O-2303D-3 JH.O-2303D-4 JH.O-2303D-5 JH.O-2303D-6
 JH.O-2303D-7 JH.O-2303D-8 JH.O-2303D-9 JH.O-2303D-10 JH.O-2303E JH.O-2303F JH.O-2303T
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 JH.O-2106B-10 JH.O-2501 JH.O-2501-1 JH.O-2501-2 JH.O-2501-3 JH.O-2501-4 JH.O-2501-5
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