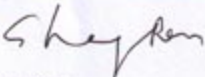
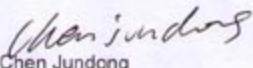


<b>Prüfbericht - Nr.:</b> Z08805624		<b>Seite 1 von 7</b>	
<i>Test Report No.:</i> Additional Report of Z08805167		<i>Page 1 of 7</i>	
<b>Auftraggeber:</b> <i>Client:</i>	FARSEE TECHNOLOGY CO., LIMITED 4F Building A, No. 60, Xinan 3 <sup>rd</sup> Road, Block 22, Baoan District, Shenzhen City, P. R. China		
<b>Prüfgegenstand:</b> <i>Test item:</i>	1 sample of electronic cigarette cartridge (Please refer to photo on page 7.)		
<b>Bezeichnung:</b> <i>Identification:</i>	ELECTRONIC CIGARETTE CARTRIDGE		
<b>Anlieferungszustand:</b> <i>Delivery condition</i>	<b>Einwandfrei, Prüfgegenstand getestet wie angeliefert</b> Apparent good, Samples tested as received	<b>Eingangsdatum:</b> <i>Date of receipt:</i>	May 07 <sup>th</sup> 2008
<b>Prüfört:</b> <i>Testing location:</i>	TÜV Rheinland (Shenzhen) Co. Ltd. · Industrial Products Testing Center		
<b>Prüfgrundlage:</b> <i>Test specification:</i>	Selected tests for the suitability for contact with foodstuffs compliant with the following regulations: - Regulation (EC) No 1935/2004, - Directive (EC) 2002/72 and corresponding Regulations - German § 30 and § 31 LFGB (Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch)		
<b>Prüfergebnis:</b> <i>Test result:</i>	<b>Nach Art und Umfang der durchgeführten Prüfungen entspricht der Prüfgegenstand oben genannter Prüfgrundlage.</b> <i>According to the kind and extend of tests performed the test item passed test specification.</i>		
<b>Geprüft: tested by:</b>		<b>Kontrolliert: checked by:</b>	
May 26 <sup>th</sup> 2008	Sherry Ren Senior Technical Support Compiler	May 26 <sup>th</sup> 2008	Chen Jundong Product Line Manager
<b>Datum</b> <i>Date</i>	<b>Name/Stellung</b> <i>Name/Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>
			<b>Name/Stellung</b> <i>Name/Position</i>
			<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges/ Other Aspects:</b>			
<b>Test period:</b> May 07 <sup>th</sup> 2008 - May 19 <sup>th</sup> 2008			
<b>Abkürzungen:</b>	ok / P = entspricht Prüfgrundlage fail / F = entspricht nicht Prüfgrundlage n.a. / N = nicht anwendbar	<b>Abbreviations:</b>	ok / P = passed fail / F = failed n.a. / N = not applicable
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugswise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report relates to the a. m. 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.</i>			



**Test Report**

Our Reference No. : Z08805624  
Customer : FARSEE TECHNOLOGY CO., LIMITED  
Indication : Food contact  
Product : Commodity, contact with foodstuff  
§ 2 (6) 1 No. 1 of the German Food-, Commodities and Animal Feed Code of Law (LFGB)

**Description of test specimen:****ELECTRONIC CIGARETTE CARTRIDGE**

According to Regulation (EC) No 1935/2004 this product is an article or material that is intended to come into contact with food and according to § 2 (6) 1 No. 1 of the German Food-, Commodities and Animal Feed Code of Law (LFGB) this product is a commodity.

**Examination Procedure:**

The analysis will be carried out according to the following acts and regulations:

- German Food-, Commodities and Animal Feed Code of Law (Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuches LFGB) of 01.09.2005
- Publication of the Commodities Ordinance (BGVO) published on 23.12.1997
- REGULATION (EC) No 1935/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 October 2004 on materials and articles intended to come into contact with food and repealing Directives 80/590/EEC and 89/109/EEC
- COMMISSION DIRECTIVE 2002/72/EC, Material and objects made of plastic, which are intended to come in contact with foodstuffs.
- Recommendation of the Commission on Synthetic Materials in the BfR, („Kunststoffe im Lebensmittelverkehr,“) „Recommendation on the evaluation of synthetic materials and other high molecular weight polymers with regard to health aspects, (synthetic materials in contact with food)
- Council of Europe's policy statements concerning materials and articles intended to come into contact with foodstuffs; Guidelines on metals and alloys used as food contact materials (13.02.2002)

The chemical tests to examine the suitability for contact with foodstuffs in the sense of § 30 and § 31 LFGB and art.3 of décret n° 92-631 (08.07.1992) were carried out on the basis of the test stipulations specified as follows:

- Official compilation of examination procedures in accordance with the method compilation based on § 64 LFGB (old title still in use: § 35 LMBG), Volume II/1 Commodities (B).
- EC-directives:

85/572 : List of simulation solvents for migration examinations-materials made of plastic which are intended to come in contact with foodstuffs.

82/711: Basic regulations for the determination of the migration from materials and objects, which are intended to come in contact with foodstuffs.

- BS EN 601 - Aluminium and aluminium alloys - castings - Chemical composition of castings, which are intended to come in contact with foodstuffs, 1995

Information regarding the ingredients was not available; a control of the present components in the sense of 2002/72/EC was therefore not possible.



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## Test results

### 1. General manufacture and materials employed

The product submitted for testing is of clean and hygienic manufacture. No manufacturing residues or other damage could be determined which, in the sense of its foreseen and intended use, could lead to the user being endangered or the health of the user being impaired.

### 2. Sensorial examination

It is examined to what extent food simulant, which comes into contact with the product, undergoes detectable changes in taste and smell. For this purpose the food simulant is stored in the product for the below mentioned time and temperature. After this time the food simulant is examined by an appropriate number of tasters with regard to any divergence in smell and taste. Another test sample, which is used as a reference, is treated the same way except that it has no contact with the product to be tested.

Before testing, the product has been cleaned three times with hot water (60°C).

The test is carried out on the basis of §35 LMBG L 0090-7 in connection with DIN 10955.

Evaluation scheme for the transfer of taste and smell:

- 0 = no discernible deviation
- 1 = barely discernible deviation
- 2 = weak deviation
- 3 = clear deviation
- 4 = strong deviation

**LIMIT: 3**

The following simulation solvents and test conditions were stipulated:

Smell	Test duration/temperature
Water	24h / RT
Test Sample	E-Cigarette liquid holder
Smell	1
Taste	1

The submitted product is inconspicuous with regard to the transfer of smell and taste bearing substances to the food product simulant water.



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**3. Extracted heavy metal**

The metal-release of a product was tested under the following conditions for migration:

Food simulant	Test duration/temperature
Water	1 h / 40°C

The determination of the amounts of metal that were released is done via atomic absorption spectroscopy and emission spectroscopy, respectively.

Test Sample	E-Cigarette liquid
Lead mg/dm <sup>2</sup>	<5
Copper mg/dm <sup>2</sup>	<5
Arsenic mg/dm <sup>2</sup>	<5
Zinc mg/dm <sup>2</sup>	<5

Abbreviation : &lt; denotes less than

**4. Lead and Cadmium in plastics after total digestion**

By experience plastic materials often contain lead in high concentrations. Basically lead is absorbed via the skin, so only parts which are in permanent contact with the skin, may have a hazardous potential. Contents of cadmium are regulated for products with plastic parts by directive 76/769/EEC, Annex I, to a limit of 100 mg/kg. This value even applies to parts of products.

Test Sample	E-Cigarette liquid holder	E-Cigarette liquid	Limit (ppm)
Lead, Pb ppm	<10	<10	-
Cadmium, Cd ppm	<10	<10	100

**5. Nonylphenol**

Test method : In-house method, extraction with organic solvent, qualitative and semi-qualitative screening by GC-MS

Test Sample	E-Cigarette liquid holder	Limit (mg/kg)
Nonylphenol mg/kg	8	100

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**6. Polycyclic Aromatic Hydrocarbons (PAHs)**

Test method : Sum of 16 polycyclic aromatic hydrocarbons PAHs (EPA) in polymers by GC/MS

Determination limit of the test method: &lt; 0.1 mg/kg per PAH component

Requirement :

Parameter	Category 1	Category 2	Category 3
	Materials in direct contact with food, or materials intended to be put into mouth, and toys for children aged <36 months	Materials with foreseeable contact with skin for longer than 30 seconds (long-term skin contact), and toys not covered by category 1	Materials with foreseeable contact with skin up to 30 seconds (short-term skin contact) or without skin contact
Benzo[a]pyren mg/kg	Not detectable (<0.2)*	1	20
Summe 16 PAHs (EPA) mg/kg	Not detectable (<0.2)*	10	200

Limit: specific evaluation required according to type of foreseeable use.

\* In the case that the limit of category 1 is exceeded, but fall within the limit of category 2, the proof of suitability for food contact or mucous membrane of the oral cavity contact can be given with an additional specific migration testing of the PAH components according to DIN EN1186ff. and § 64 LFGB 80.30-1 (German Food and Feed Code). The results have to be evaluated according to food law principles.

Test sample		E-Cigarette liquid holder
Parameter	Unit	Result
acenaphthene	mg/kg	<0.1
acenaphthylene	mg/kg	0.2
anthracene	mg/kg	<0.1
Benzo[a]anthracene	mg/kg	<0.1
Benzo[a]pyrene	mg/kg	<0.1
Benzo[b]fluoranthene	mg/kg	<0.1
Benzo[ghi]perylene	mg/kg	<0.1
Benzo[k]fluoranthene	mg/kg	<0.1
chrysene	mg/kg	0.1
Dibenz[a,h]anthracene	mg/kg	<0.1
fluoranthene	mg/kg	0.2
fluorene	mg/kg	<0.1
Indeno[1,2,3-cd]pyrene	mg/kg	<0.1
naphthalene	mg/kg	1.2
phenanthrene	mg/kg	0.1
pyrene	mg/kg	2.7
Sum PAHs (EPA)	mg/kg	4.5 (migration test see page 6)

Abbreviation : &lt; denotes less than



Our Reference No. : Z08805624

**7. Migration of Polycyclic Aromatic Hydrocarbons (PAHs)**

Test method : DEV-Determination of 16 polycyclic aromatic hydrocarbons PAHs by high performance liquid chromatography (HPLC) with fluorescence detection (F18) with additional DAD-Detection.

Determination limit of the test method: &lt; 10 ug/l per PAH component

Conditions		24h/40 °C with water	
Test sample		E-Cigarette liquid holder	
Parameter	Unit	Result	
acenaphthene	ug/l	<10	
acenaphthylene	ug/l	<10	
anthracene	ug/l	<10	
Benzo[a]anthracene	ug/l	<10	
Benzo[a]pyrene	ug/l	<10	
Benzo[b]fluoranthene	ug/l	<10	
Benzo[ghi]perylene	ug/l	<10	
Benzo[k]fluoranthene	ug/l	<10	
chrysene	ug/l	<10	
Dibenz[a,h]anthracene	ug/l	<10	
fluoranthene	ug/l	<10	
fluorene	ug/l	<10	
Indeno[1,2,3-cd]pyrene	ug/l	<10	
naphthalene	ug/l	<10	
phenanthrene	ug/l	<10	
pyrene	ug/l	<10	
Sum PAHs (EPA)	ug/l	n.d.(pass)	

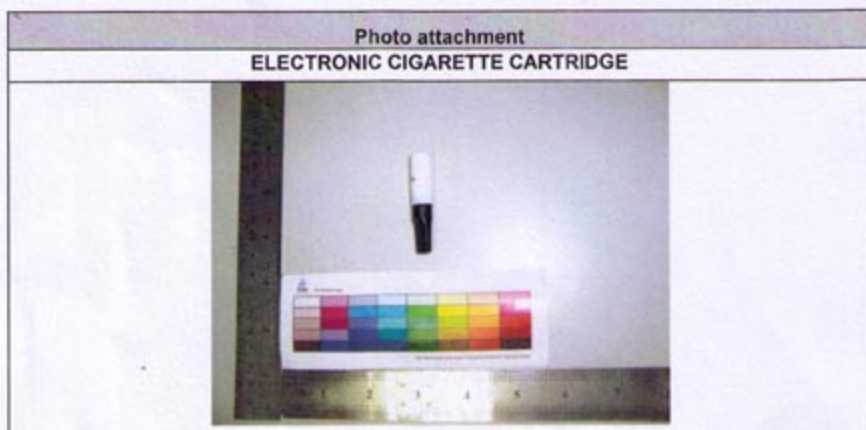
 Abbreviation : < denotes less than  
 n.d. Denotes not detect

**8. Final Results**

Based on the randomly sampled examinations performed, the test specimen "ELECTRONIC CIGARETTE CARTRIDGE" corresponds to the requirements of the German § 30 and § 31 LFGB (Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch); Directive (EC) 2002/72 and corresponding Regulations and Regulation (EC) No 1935/2004. With regard to the parameters tested the above listed requirements are met.



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