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Shenzhen Eleaf Electronics Co., Ltd

Area B, 1F, B-28, Heyi Beifang Tech Industrial Park

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Shenzhen, China

Study Report**1608-22046-29-11**

Report date : 28/10/2016

Client number: 111303

Quote reference: 22046

Date of receipt: 29/08/2016

Sample condition: Received by carrier

Sample informations

Reference	iStick Basic
Manufacturer:	Shenzhen Eleaf Electronics Co.,Ltd
Manufacturer Address:	Area B, 1F, B-28, Heyi Beifang Tech Industrial Park,Shajing Town, Baoan District, Shenzhen, China.
Filling capacity (ml):	2 ml
Battery type:	Li
Battery capacity (mAh):	2300 mAh
Recommended power (w):	N/A
Maximal power recommended for using this tank:	30 W
Maximal power (w):	14,7 W
Maximal tension (v):	4,2 V
Material of tank tube:	Glass
Value of resistance (Ohm):	0,75 ohm
Surface of the resistance (mm2)	75

Material**Additional information:**

Using sub ohm coils at maximal recommended values of wattage and/or temperature produce a huge amount of vapor. This amount of vapor can not be vaped during 3s puffs under reasonable use of the device. Furthermore, the device may stop because of security program. In order to follow as much as possible AFNOR XP 90-300-3 standard and provide results as relevant as possible for sub ohm coils, the manufacturer recommends to proceed the test with the lowest wattage recommended for atomizer head in WC (Wattage control) mode.

Method

All tests were carried out according to the **AFNOR XP D90-300-3 (07/2016):**

Electronic cigarettes and e-liquids - Part 3: Requirements and test methods for emissions

Results

Power used for testing: N/A

1- Variability of the e-liquid mass consumed

a- AFNOR e-liquide A

E-liquide mass consumed (g)			
Serie 1	0,233	0,261	0,207
Serie 2	0,236	0,230	0,239
Serie 3	0,228	0,233	0,234
Serie 4	0,227	0,244	0,237
Serie 5	0,229	0,245	0,228

CAS Number of Nicotine: 54-11-5

Comment:

Mean	0,233	
Interval	0,175	to 0,291
Conformity	Compliant	

b- AFNOR e-liquide B

E-liquide mass consumed (g)			
Serie 1	0,180	0,180	0,183
Serie 2	0,218	0,234	0,224
Serie 3	0,228	0,238	0,230
Serie 4	0,230	0,249	0,241
Serie 5	0,244	0,243	0,241

Comment:

Mean	0,219	
Interval	0,164	to 0,273
Conformity	Compliant	

2- Variability of nicotine emitted mass

a- AFNOR e-liquide A

Nicotine emitted mass (mg/20 puffs)			
Serie 1	2,136	2,325	1,874
Serie 3	2,045	2,105	1,999
Serie 5	1,989	2,256	2,103

Comment:

Mean	2,092	
Interval	1,569	to 2,616
Conformity	Compliant	

b- AFNOR e-liquide B

Nicotine emitted mass (mg/20 puffs)			
Serie 1	1,721	1,687	1,706
Serie 3	2,014	2,024	2,106
Serie 5	2,156	2,099	2,065

Comment:

Mean	1,953
Interval	1,465 to 2,441
Conformity	Compliant

Conclusion: Under the test conditions, the electronic cigarette delivers a dose of nicotine at consistent levels

3- Aldehydes determination in emissions

a- AFNOR e-liquide A

<u>Parameter (CAS number)</u>	<u>Result</u>	<u>Target value*</u> <u>XP D90 300-3</u>	<u>Unit</u>
Acrolein (107-02-8)	<10	16	µg/200 puffs
Acetaldehyde (75-07-0)	430	3200	µg/200 puffs
Formaldehyde (50-00-0)	178	200	µg/200 puffs

b- AFNOR e-liquide B

<u>Parameter (CAS number)</u>	<u>Result</u>	<u>Target value*</u> <u>XP D90 300-3</u>	<u>Unit</u>
Acrolein (107-02-8)	<10	16	µg/200 puffs
Acetaldehyde (75-07-0)	418	3200	µg/200 puffs
Formaldehyde (50-00-0)	140	200	µg/200 puffs

4- Metals determination in emissions

<u>Parameter (CAS number)</u>	<u>Result</u>	<u>Target value*</u> <u>XP D90 300-3</u>	<u>Unit</u>
Lead (7439-92-1)	<2	5	µg/200 puffs
Cadmium (7440-43-9)	<1	2	µg/200 puffs
Chromium (7440-47-3)	<2	3	µg/200 puffs
Nickel (7440-02-0)	<2	5	µg/200 puffs
Arsenic (7440-38-2)	<1	2	µg/200 puffs
Antimony (7440-36-0)	<10	20	µg/200 puffs

Comment: * The specified target values correspond to the indicative target values in Annex B (informative) of the AFNOR XP 90-300-3

Nicolas LE CALVEZ
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