



中国认可
国际互认
检测
TESTING
CNAS L4549

Test Report

Report No.: JC-CPC230998Z1

For Tobacco Product Directive (2014/40/EU) Article 20 &
Part 6 of the Tobacco and Related Products Regulations 2016 (TRPR)
(Aerosol Test for TPD & MHRA Notification)

Applicant: Dongguan Mismok Electronic Technology Co., Ltd.

Manufacturer: Dongguan Mismok Electronic Technology Co., Ltd.

Name of Sample: Replaceable Pod System

Flavor: /

Device Brand: /

Device Model: O5EX

Date of Issuance: Jan. 05, 2024

Skyte Testing Services Guangdong Co., Ltd.



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Applicant Name: Dongguan Mysmok Electronic Technology Co., Ltd.
Applicant Add.: Room 302, Building 1, 107 Qingyu Road, Qingxi Town, Dongguan City, Guangdong Province
Manufacturer: Dongguan Mysmok Electronic Technology Co., Ltd.
Manufacturer Add.: Room 302, Building 1, 107 Qingyu Road, Qingxi Town, Dongguan City, Guangdong Province

Test sample was submitted by the applicant, report on the submitted sample said to be:

Sample Name: Replaceable Pod System
Batch No.: 20231226
Device Model: O5EX
Output Power: 10.2 W
Resistance: 1.2 Ω

Sample Received Date: Dec. 27, 2023
Testing Period: Dec. 27, 2023 to Jan. 05, 2024

Tests Conducted: As requested by the applicant. See the following pages for details.

Signed for and on behalf of
Skyte Testing Services Guangdong Co., Ltd.



Vanessa Huang / Technical Director
CNAS Approved Signatory

Remark: Please note that every statement made in this report is only valid for the samples tested and reported herein. This report shall not be reproduced except in full, without the written approval of SKYTE. The samples's information was provided by the applicant, SKYTE has no responsibility for the truth of such information.

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Test Requirement and Conclusion:

Test Items	Test Requirement and Conclusion
Nicotine, Nicotine Consistence, Nicotine Entrapment Efficiency, Alcohols, Ketones, Carbonyls, Volatile Organic Compounds (VOC), Metal and Nonmetal Elements, Specific Nitrosamine	Test conducted as per <i>Tobacco Product Directive (2014/40/EU) Article 20 & UK Statutory Instruments on The Tobacco and Related Products Regulations 2016, PART 6 - Electronic cigarettes</i> . The test results meet the target values of AFNOR XP D90-300-3:2021 Annex B.

Test Results

Smoking machine condition: Number of series: 5
 Number of puffs per series: 20
 Total number of puffs: 100
 Puffing duration: 3 s
 Total vaporization duration: 300 s
 Time between 2 puffs: 30 s
 Time between 2 series: 300 s
 Puff volume: 55 mL
 Maximum flow rate: (18.5±1.8) mL/s
 Inhalation profile: Square wave
 Device power setting: Fixed

1. Nicotine, Nicotine Consistence, Nicotine Entrapment Efficiency

Test Item	Test Results (mg/mL)			AVG (mg/mL)	Target Value *
	Serie1 (1~20 puffs)	Serie3 (41~60 puffs)	Serie5 (81~100 puffs)		
Nicotine Consistence	9.04	9.47	10.32	9.61	—
Deviation	-5.93%	-1.46%	7.39%	—	30%

Test Item	CAS No.	Test Result (mg/100 puffs)	MDL (mg/100 puffs)
Nicotine	54-11-5	4.60	0.05

Test Item	Test Result (mg/mg)
Nicotine Entrapment Efficiency	0.83

2. Alcohols

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)
Ethylene glycol	107-21-1	N.D.	20
Diethylene glycol	111-46-6	N.D.	20

3. Ketones

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)	Target Value * (µg/200 puffs)
Diacetyl	431-03-8	N.D.	0.6	490
2,3-Pentanedione	600-14-6	N.D.	8.0	—

4. Carbonyls

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)	Target Values* (µg/200 puffs)
Formaldehyde	50-00-0	61.7	0.4	200
Acetaldehyde	75-07-0	5.1	0.8	3200
Acrolein	107-02-8	N.D.	0.6	16
Crotonaldehyde	123-73-9	N.D.	4.0	—

5. Volatile Organic Compounds (VOC)

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)
Benzene	71-43-2	N.D.	4.0
Toluene	108-88-3	N.D.	4.0
1,3-Butadiene	106-99-0	N.D.	40
Isoprene	78-79-5	N.D.	4.0

6. Metal and Nonmetal Elements

Test Items	CAS No.	Test Results (ng/200 puffs)	MDL (ng/200 puffs)	Target Values* (ng/200 puffs)
Chromium (Cr)	7440-47-3	N.D.	2.12	3000
Nickel (Ni)	7440-02-0	2.00	1.50	5000
Cadmium (Cd)	7440-43-9	N.D.	1.52	3000
Lead (Pb)	7439-92-1	N.D.	1.48	5000
Arsenic (As)	7440-38-2	25.3	1.38	2000
Antimony (Sb)	7440-36-0	N.D.	1.48	20000
Tin (Sn)	7440-31-5	N.D.	10	—
Mercury (Hg)	7439-97-6	N.D.	2.38	1000
Copper (Cu)	7440-50-8	N.D.	10	—

Test Items	CAS No.	Test Results (µg/200 puffs)	MDL (µg/200 puffs)
Aluminum (Al)	7429-90-5	N.D.	0.5
Iron (Fe)	7439-89-6	N.D.	0.1

7. Specific Nitrosamine

Test Items	CAS No.	Test Results (ng/200 puffs)	MDL(ng/200 puffs)
NNN	16543-55-8	N.D.	25
NNK	64091-91-4	N.D.	25
NAB	1133-64-8	N.D.	25
NAT	887407-16-1	N.D.	25

Tested by: Yin Yuanyue, Zhang Mengting, Qin Caiyue, Chen Junlong, Wei Wenlong, Ruan Jie

Checked by: Huang Xiangwei, Xu Guichun

Remarks:

- (1) mg/mL = milligram per milliliter
- (2) mg/mg = milligram per milligram
- (3) mg/100 puffs = milligram per one hundred puffs
- (4) µg/200 puffs = microgram per two hundred puffs
- (5) ng/200 puffs = nanogram per two hundred puffs
- (6) MDL = method detection limit
- (7) N.D. = not detected, less than MDL
- (8) * = The target values are quoted from AFNOR XP D90-300-3:2021 Annex B.
- (9) The test item of Specific Nitrosamine was not accredited by CNAS.
- (10) E-liquids were prepared by internal lab according to AFNOR XP D90-300-3:2021 clause 5.2.

Test Methods

Test Items	Test Methods	Test Instruments
Nicotine, Nicotine Consistence, Nicotine Entrapment Efficiency	AFNOR XP D90-300-3:2021 Annex A.3	GC-FID
Ethylene glycol	C-QT-1800-TP (In-house test method)	GC-FID
Diethylene glycol		
Diacetyl	AFNOR XP D90-300-3:2021 Annex A.4	GC-MS
2,3-Pentanedione		
Formaldehyde	AFNOR XP D90-300-3:2021 Annex A.5	UPLC-PDA
Acetaldehyde		
Acrolein		
Crotonaldehyde		

Test Items	Test Methods	Test Instruments
Benzene	CORESTA RECOMMENDED METHOD No.70 (2019)	GC-MS
Toluene		
1,3-Butadiene		
Isoprene		
Chromium (Cr)	AFNOR XP D90-300-3:2021 Annex A.6	ICP-MS
Nickel (Ni)		
Cadmium (Cd)		
Lead (Pb)		
Arsenic (As)		
Antimony (Sb)		
Tin (Sn)		
Mercury (Hg)		
Copper (Cu)		
Aluminum (Al)		
Iron (Fe)		
NNN	CORESTA RECOMMENDED METHOD No.75 (2022)	LC-MS/MS
NNK		
NAB		
NAT		

Sample Photo



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(End of report)