



Technical Report No. 68.167.15.0161.01
Dated 2015-04-30

Client: Innokin Technology Co.,Ltd

Address: Building 6 ,XinXinTian Industrial Park, XinSha Road, ShaJing street ,ShenZhen, China

Attn.: George

Sample Description: iSub

Model No.: /

Contury of origin: CHINA

Exported to: Europe , North America

Location of Testing: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Sample Received Date: 2015-04-21

Test Period: From 2015-04-21 to 2015-04-29

Test Requested and Conclusion: Test according to RoHS (Restriction of Hazardous Substances) directive 2011/65/EU on submitted samples

- Heavy Metal (Pb, Cd, Hg and CrVI) Content **PASS**
- Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content **PASS**

Test Result: Refer to the following page(s)



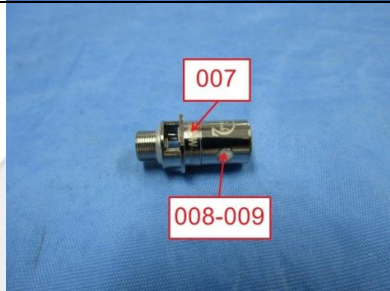
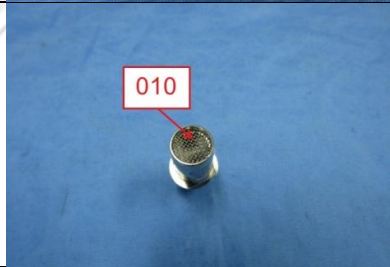

Remark: The result relates only to the items tested.

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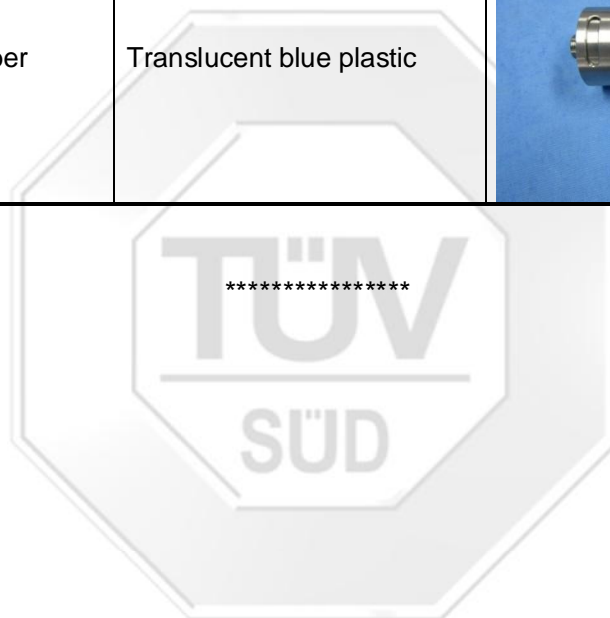
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1. TESTED SUBJECT DESCRIPTION

Sample Number	Item Name	Tested Material Description	Photo
001	Filter tip	Silvery metal	
002	Chamber	Translucent pink plastic	
003	Cap	Silvery metal	
004	Connector	Silvery metal	
005	Gasket	White soft plastic	
006	Gasket	Transparent soft plastic	
007	Filter	Silvery metal	
008	Filter	White fiber	
009	Filter	Silvery metal coil	
010	Mesh	Silvery metal	
011	Chamber	Transparent plastic	

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Sample Number	Item Name	Tested Material Description	Photo
012	Chamber	Translucent grey plastic	
013	Chamber	Translucent blue plastic	





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2. TEST RESULTS

2.1. SCREENING

Test method: With reference to EN 62321:2009, analyzed by Energy Dispersive X-ray Fluorescence Spectrometers (XRF).

Sample No.	Total Cadmium	Total Chromium	Total Mercury	Total Lead	Total Bromine
001	BL	Inconclusive ^(a)	BL	BL	N.A.
002	BL	BL	BL	BL	BL
003	BL	Inconclusive ^(a)	BL	BL	N.A.
004	BL	BL	BL	OL ^(a)	N.A.
005	BL	BL	BL	BL	BL
006	BL	BL	BL	BL	BL
007	BL	BL	BL	OL ^(a)	N.A.
008	BL	BL	BL	BL	BL
009	BL	Inconclusive ^(a)	BL	BL	N.A.
010	BL	Inconclusive ^(a)	BL	BL	N.A.
011	BL	BL	BL	BL	BL
012	BL	BL	BL	BL	BL
013	BL	BL	BL	BL	BL

Note:

- “BL” denotes below limit
- “OL” denotes over limit
- “N.A.” denotes not applicable
- “^(a)” denotes further confirmation test was conducted, results are listed in 2.2 and 2.3.

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— XRF screening limits in mg/kg for regulated elements in various matrices

ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	$X < (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X > (130+3\sigma)$
Pb	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Hg	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Br	$X < (300-3\sigma)$	$X > (300-3\sigma)$	NA
Cr	$X < (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	$X < (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X > (130+3\sigma)$
Pb	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Hg	$X < (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X > (1300+3\sigma)$
Cr	$X < (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	$X < (50-3\sigma)$	$(50-3\sigma) < X < (150+3\sigma)$	$X > (150+3\sigma)$
Pb	$X < (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X > (1500+3\sigma)$
Hg	$X < (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X > (1500+3\sigma)$
Br	$X < (250-3\sigma)$	$X > (250-3\sigma)$	NA
Cr	$X < (500-3\sigma)$	$X > (500-3\sigma)$	NA

2.2. HEAVY METAL CONTENT

Test method: With reference to EN 62321:2009, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and UV-Vis spectrophotometer. [Reporting Limit: 2mg/kg for cadmium; 10mg/kg for hexavalent chromium, lead and mercury.]

Sample No.	Result [mg/kg]			
	Total Cadmium	Hexavalent Chromium	Total Mercury	Total Lead
001	--	Negative	--	--
003	--	Negative	--	--
004	--	--	--	3.05x10 ^{4(a)}
007	--	--	--	3.08x10 ^{4(a)}
009	--	Negative	--	--
010	--	Negative	--	--
RoHS Requirement	100	1000	1000	1000

Note:

- “mg/kg” denotes milligram per kilogram
- “<” denotes less than
- “Negative” denotes the absence of Cr(VI) coating.
- “--” denotes tested by XRF, result is listed in 2.1
- “(a)” denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) “Copper alloy containing up to 4 % lead by weight”.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
 TÜV SÜD Group

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Reviewed by:



Mario Ma
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APPENDIX:

Photos of submitted products