

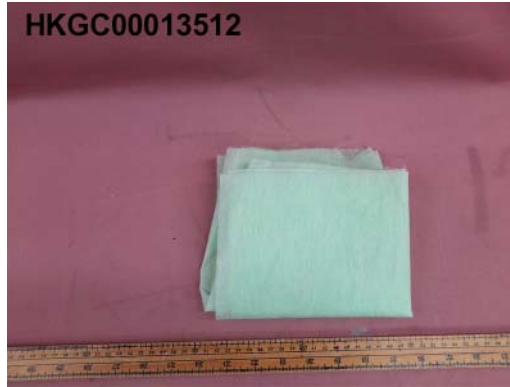
TEST REPORT

Applicant: Tact Global Holding Limited
6/F., Yardley Commercial Building,
3 Connaught Road West, Sheung Wan,
Hong Kong

Number: HKGC00013512
Date: Feb 27, 2023

Attn: Timothy Wong

Item Name : **Kirin Shield Platinum Nano Air Filter**
Brand Name : Kirin Shield
Manufacturer : Guangzhou Anfu Environmental Protection Technology Co., Ltd.



Tests conducted:
As requested by the applicant, refer to attached page(s) for details.

Conclusion:
The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details:

<u>Requirement</u>	<u>Result</u>
(1) RoHS Directive (2011/65/EU) - Restriction of the Use of certain Hazardous Substances in Electrical and Electronic Equipment	Pass
(2) RoHS Directive (2011/65/EU) and amendment Commission Delegated Directive (EU) 2015/863 - Phthalate Content	Pass

For and on behalf of :
Intertek Testing Services HK Ltd.

Ken Chan
Deputy General Manager



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(1) RoHS Test

(A) Results:

Screened Components	XRF Results					Chemical Confirmation Result
	Cd	Pb	Hg	Cr	Br	
(1)	ND	ND	ND	ND	ND	--

Remark:

ND = Not Detected
 NA = Not Applicable
 D = Detected: Below the lower screening limit of table(B) and pass.
 ppm = part per million = mg/kg

(B) XRF screening limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$

P = Pass
 X = Inconclusive result
 F = Fail
 mg/kg = milligram per kilogram = ppm

(C) Estimated detection limits in mg/kg for regulated elements in various matrices

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not Applicable	200

Disclaimers:

This XRF screening report is for reference purposes only. The applicant shall make its/His/Her own judgement as to whether the information provided in this XRF screening report is sufficient for its/His/Her purposes.

The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. Plastic, Rubber, Metal, Glass, Ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.



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(D) Test Methods

Testing Item	Testing Method	Reporting Limit
XRF screening	With reference to IEC 62321-3-1 edition 1.0 : 2013, by X-ray fluorescence spectrometry	Refer to (C)

(E) RoHS requirements

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from Annex II of 2011/65/EU.

Tested component:

- (1) Green felt (Air filter).

Date sample received: Feb 09, 2023

Testing period: Feb 09, 2023 to Feb 13, 2023



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(2) Phthalate Content Test

Test Method: IEC 62321-8:2017, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compounds	Result (% w/w)	Limit (% w/w)
	(1)	(max.)
Dibutyl phthalate (DBP)	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	0.1

Remark: The above limit was quoted according to Commission Delegated Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Tested component:

(1) Green felt (Air filter).

Date sample received: Feb 09, 2023

Testing period: Feb 09, 2023 to Feb 13, 2023

End of report

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