

# Test Report

**Report No.:** AGC03507190306-001

Date: Mar.21, 2019

Page 1 of 19

**Applicant:** MID OCEAN BRANDS B.V

**Address:** 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

**Report on the submitted sample(s) said to be:**

**Sample Name:** Running waist belt with light

**Sample Model:** MO9114

**Supplier:** 107978

**Sample Received Date:** Mar.15, 2019

**Testing Period:** Mar.15, 2019 to Mar.21, 2019

**Test site:** 1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

**Test Requested:** Please refer to following page(s).

**Test Method:** Please refer to following page(s).

**Test Result:** Please refer to following page(s).

Approved by: Huangguohua

Huangguohua

Vice Laboratory Manager

Approved by: Lewis

Liulinwen, Lewis

Technical Director



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

# Test Report

Report No.: AGC03507190306-001

Date: Mar.21, 2019

Page 2 of 19

## Test Requested:

1. As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.
2. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.
3. As specified by client, to determine Azocolourants and Azodyes in the submitted sample with reference to Entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006.
4. As specified by client, to determine the color fastness to rubbing of the submitted sample.
5. As specified by client, to determine the Pb, Cd, Hg, Cr<sup>6+</sup>, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.
6. As specified by client, to determine the DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863.

## Conclusion

Pass

Pass

Pass

Pass

Pass

Pass

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

**AGC**

Attestation of Global Compliance Std. & Tech.

**No.18 C**

Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com 400 089 2118  
Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 3 of 19

**1. Test result of Polycyclic Aromatic Hydrocarbons (PAHs)**

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)		Limit
			1-3	1-4	
Benzo[a]anthracene (BaA)	Refer to AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	1
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	1
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	N.D.	1
<b>Sum of 8 PAHs</b>		—	N.D.	N.D.	/
<b>Conclusion</b>		/	<b>Pass</b>	<b>Pass</b>	/

- Note:**
1. MDL=Method Detection Limit
  2. N.D.=Not Detected(less than method detection limit)
  3. As specified by client, only test the designated sample.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 4 of 19

**2. Test result of phthalates content**

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-3	1-4	
Dibutyl phthalate (DBP)	Refer to EN 14372:2004 GC-MS	0.01	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	0.1
<b>Sum of DBP+BBP+DEHP+DIBP</b>		—	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	-
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	
<b>Sum of DNOP+DINP+DIDP</b>		—	N.D.	N.D.	0.1
<b>Conclusion</b>			/	<b>Pass</b>	<b>Pass</b>

- Note:**
- 0.1%,w/w =1000mg/kg
  - MDL=method detection limit
  - N.D.=not detected (less than method detection limit)
  - “—” =Not regulated
  - As specified by client, only test the designated sample

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


**AGC**
**Attestation of Global Compliance Std. & Tech.**
**No.18 C**  
 Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com 400 089 2118  
 Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

# Test Report

Report No.: AGC03507190306-001

Date: Mar.21, 2019

Page 5 of 19

**3. Test Result(s) of AZO:**

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-1	1-2	
4-Aminobiphenyl	Refer to EN ISO 14362-1:2017 EN ISO 14362-3:2017 GC-MS	5	N.D.	N.D.	30
Benzidine		5	N.D.	N.D.	30
4-Chloro-o-Toluidine		5	N.D.	N.D.	30
2-Naphthylamine		5	N.D.	N.D.	30
o-Aminoazotoluene		5	N.D.	N.D.	30
5-Nitro-o-toluidine		5	N.D.	N.D.	30
4-Chloroaniline		5	N.D.	N.D.	30
4-Methoxy-m-phenylenediamine		5	N.D.	N.D.	30
4,4'-Diaminodiphenylmethane		5	N.D.	N.D.	30
3,3'-Dichlorobenzidine		5	N.D.	N.D.	30
3,3'-Dimethoxybenzidine		5	N.D.	N.D.	30
3,3'-Dimethylbenzidine		5	N.D.	N.D.	30
4,4'-Methylenedi-o-toluidine		5	N.D.	N.D.	30
p-Cresidine		5	N.D.	N.D.	30
4,4'-Methylene-bis-(2-chloro-aniline)		5	N.D.	N.D.	30
4,4'-Oxydianiline		5	N.D.	N.D.	30
4,4'-Thiodianiline		5	N.D.	N.D.	30
o-Toluidine		5	N.D.	N.D.	30
4-Methyl-m-phenylenediamine		5	N.D.	N.D.	30
2,4,5-Trimethylaniline		5	N.D.	N.D.	30
o-Anisidine		5	N.D.	N.D.	30
4-Amino azobenzene		5	N.D.	N.D.	30
2,4-Xylidine		5	N.D.	N.D.	30
2,6-Xylidine		5	N.D.	N.D.	30
<b>Conclusion</b>			/	<b>Pass</b>	<b>Pass</b>

**Note:**

- 1.MDL=method detection limit
- 2.N.D.=not detected (less than method detection limit)
- 3.As specified by client, only test the designated sample
4. The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine, therefore, the test method of EN ISO 14362-3:2017 was employed to verify the presence of 4-aminoazobenzene

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 6 of 19

**4.Test Results of Color fastness to rubbing**

Item	Test method	Result				Client's requirement	
		/	1-1		1-2		
			dry	wet	dry		wet
Color fastness (Grade)	ISO 105-X12-2016	Vertical	4-5	4-5	4-5	4-5	2-3
		Horizontal	4-5	4-5	4-5	4-5	2-3

Note:

- Color fastness grade: grey scale (5 grade is good, 1 grade is bad).

**Sample Information**

1-1	Black elastic band
1-2	Orange cloth
1-3	Black plastic buckle
1-4	Orange zipper strip

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



Attestation of Global Compliance Std. &amp; Tech.

**No.18 C**  
 Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com 400 089 2118  
 Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 7 of 19

**5.Test Methods:**

A: Screening by X-ray Fluorescence Spectrometry (XRF) :With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

B: Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017 Ed 1.1	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


**AGC**
**Attestation of Global Compliance Std. & Tech.**
**No.18 C**  
 Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com 400 089 2118  
 Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 8 of 19

**Test Results:**
**A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF**

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
Green pocket lamp						
1	Black expansion belt(elastic band)	BL	BL	BL	BL	BL
2	Black plastic buckle(elastic band)	BL	BL	BL	BL	X*
3	Green cloth bag	BL	BL	BL	BL	BL
4	Cloth label	BL	BL	BL	BL	BL
5	Green zipper cloth(zipper)	BL	BL	BL	BL	BL
6	Green zipper teeth(zipper)	BL	BL	BL	BL	BL
7	Metal zipper head(zipper)	BL	BL	BL	BL	-
8	Black plastic shell	BL	BL	BL	BL	BL
9	Black button plastic piece	BL	BL	BL	BL	BL
10	Black screw	BL	BL	BL	BL	-
11	Button battery	BL	BL	BL	X*	BL
12	Metal battery sheet(circuit board)	BL	BL	BL	BL	-
13	Black heat shrinkable case(circuit board)	BL	BL	BL	BL	X*
14	Tin solder(circuit board)	BL	BL	BL	BL	-
15	PCB board(circuit board)	BL	BL	BL	BL	BL
16	Copper button(tact switch)(circuit board)	BL	BL	BL	BL	-
17	Silver metal shell(tact switch)(circuit board)	BL	BL	BL	X*	-
18	Black bare IC(circuit board)	BL	BL	BL	BL	BL
19	Transparent plastic lamp strip(lamp strip)	BL	BL	BL	BL	BL
20	White heat shrinkable case(lamp strip)	BL	BL	BL	BL	BL
21	LED lamp(lamp strip)	BL	BL	BL	BL	X*
22	Tin solder(lamp strip)	BL	BL	BL	BL	-
23	Blue enameled wire(lamp strip)	BL	BL	BL	BL	-

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.





# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 9 of 19

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
24	Red enameled wire(lamp strip)	BL	BL	BL	BL	-
Blue pocket lamp(different)						
25	Blue cloth bag	BL	BL	BL	BL	BL
26	Blue zipper cloth(zipper)	BL	BL	BL	BL	BL
27	Blue zipper teeth(zipper)	BL	BL	BL	BL	BL
Orange pocket lamp(different)						
28	Orange cloth bag	BL	BL	BL	BL	BL
29	Orange zipper cloth(zipper)	BL	BL	BL	BL	BL
30	Orange zipper teeth(zipper)	BL	BL	BL	BL	BL
Red pocket lamp(different)						
31	Red cloth bag	BL	BL	BL	BL	BL
32	Red zipper cloth(zipper)	BL	BL	BL	BL	BL
33	Red zipper teeth(zipper)	BL	BL	BL	BL	BL

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 10 of 19

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X$ $< 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X$ $< 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X$ $< 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X$ $< 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	-	$BL \leq 250 - 3\sigma < X$

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

“-“= Not regulated

\*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


**Attestation of Global Compliance Std. & Tech.**
**No.18 C**  
 Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com 400 089 2118  
 Add: Building 2, No. 171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 11 of 19

**Remark:**

- i Results were obtained by XRF for primary scanning, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000

**Disclaimers:**

This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF scanning 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.

**B. The Test Results of Chemical Method:**

 1) The Test Results of non-metal Cr<sup>6+</sup>

Test Item(s)	Unit	Result(s)	Limit
		11	
Hexavalent Chromium(Cr <sup>6+</sup> )	mg/kg	N.D.	1000

Note: N.D. = Not Detected or less than MDL  
 mg/kg = parts per million  
 MDL = Method Detection Limit

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 12 of 19

 2)The Test Results of metal Cr<sup>6+</sup>

Test Item(s)	MDL	Result(s)	Limit
		17	
Hexavalent Chromium (Cr <sup>6+</sup> )	See note	Negative	#

**Note:**

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
1	The sample solution is < the 0,10 µg/cm <sup>2</sup> equivalent comparison standard solution	The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is ≥ the 0,10 µg/cm <sup>2</sup> and ≤ the 0,13 µg/cm <sup>2</sup> equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 µg/cm <sup>2</sup> equivalent comparison standard solution	The sample is positive for Cr(VI) – The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- # = Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
- Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.
- Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).
- Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 13 of 19

## 3) The Test Results of PBBs &amp; PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)			Limit
		2	13	21	
<b>Polybrominated Biphenyls (PBBs)</b>					
Monobromobiphenyl	5	N.D.	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	
<b>Polybrominated Diphenylethers (PBDEs)</b>					
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	
<b>Conclusion</b>	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Note: N.D. = Not Detected or less than MDL  
 mg/kg = parts per million  
 MDL = Method Detection Limit

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 14 of 19

**6. Test result of DBP, BBP, DEHP, DIBP content**

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1	2	3	4	
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>		/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			5	6	8	9	
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>		/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			11	13	15	18	
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>		/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

**Report No.: AGC03507190306-001**

Date: Mar.21, 2019

Page 15 of 19

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			19	20	21	25	
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>		/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			26	27	28	29	
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>		/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			30	31	32	33	
Di-(2-ethylhexyl) Phthalate (DEHP)	Refer to IEC 62321-8:2017 GC-MS	50	N.D.	N.D.	N.D.	N.D.	1000
Dibutyl phthalate (DBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Butylbenzyl phthalate (BBP)		50	N.D.	N.D.	N.D.	N.D.	1000
Di-iso-butyl phthalate (DIBP)		50	N.D.	N.D.	N.D.	N.D.	1000
<b>Conclusion</b>		/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/

- Note:**
1. MDL = Method Detection Limit
  2. N.D. = Not Detected (less than method detection limit)

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

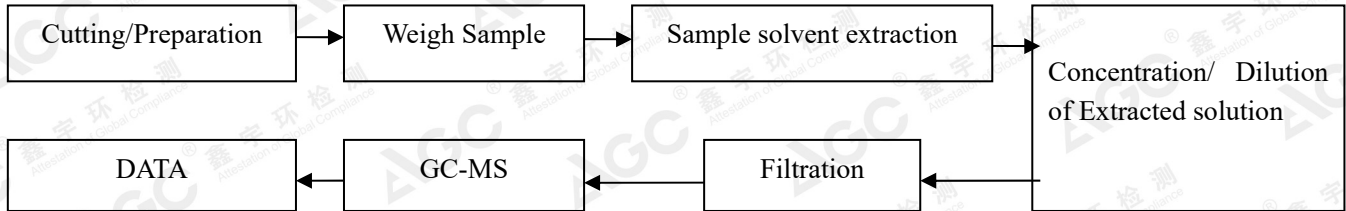
Report No.: AGC03507190306-001

Date: Mar.21, 2019

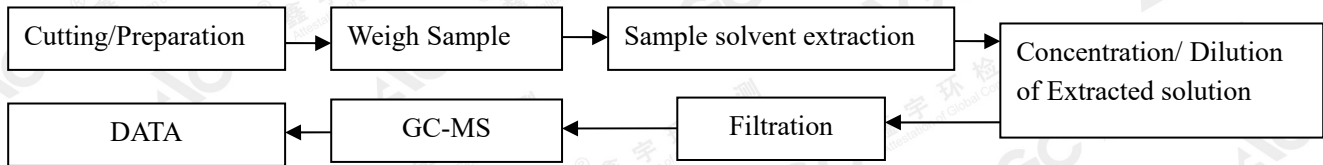
Page 16 of 19

## Test Flow Chart

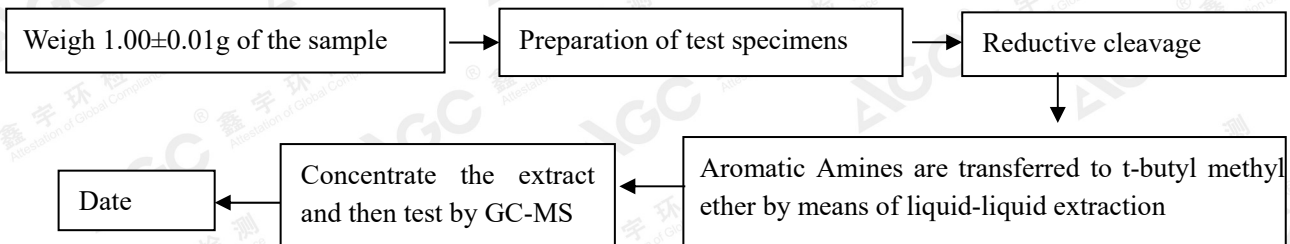
### 1. For PAHs



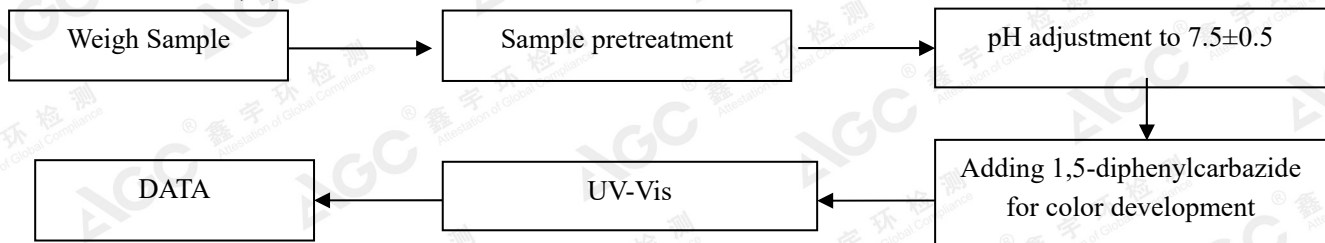
### 2. For phthalates



### 3. For AZO



### 4. For non-metal Cr(VI)



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.





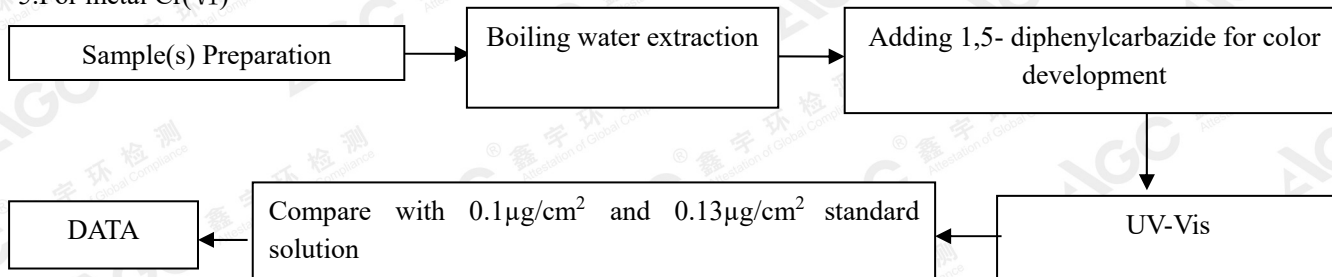
# Test Report

Report No.: AGC03507190306-001

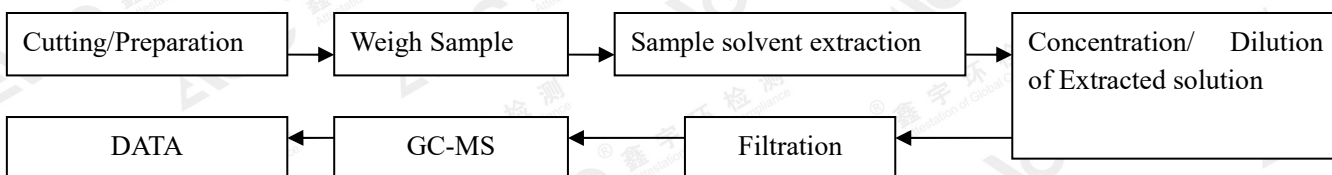
Date: Mar.21, 2019

Page 17 of 19

## 5. For metal Cr(VI)



## 6. For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



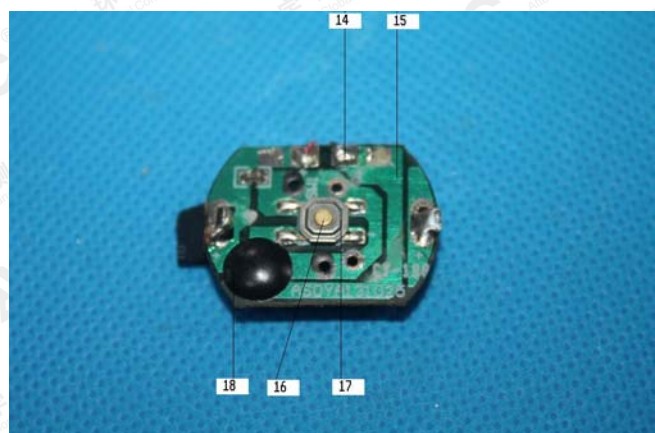
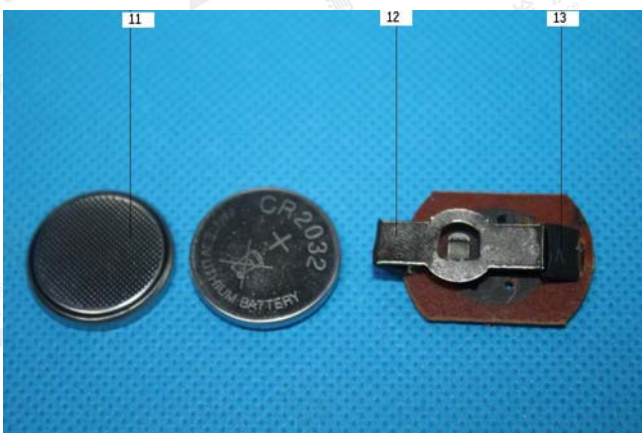
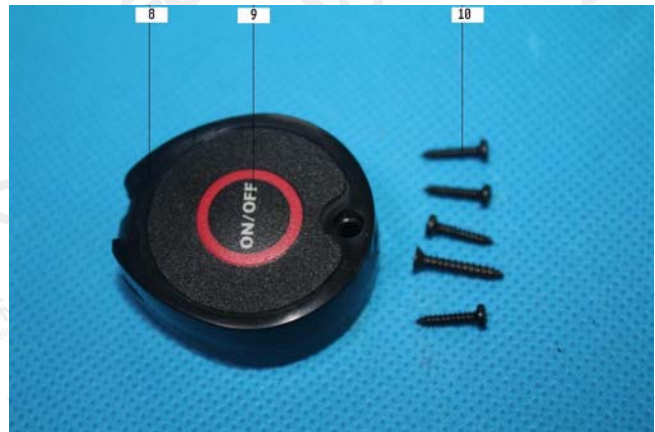
# Test Report

Report No.: AGC03507190306-001

Date: Mar.21, 2019

Page 18 of 19

## The photo of the sample



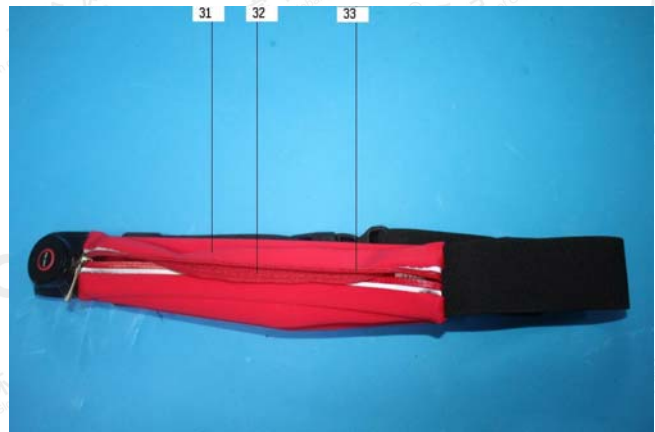
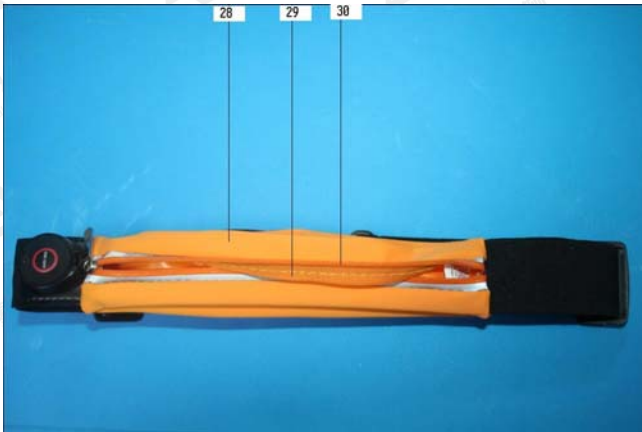
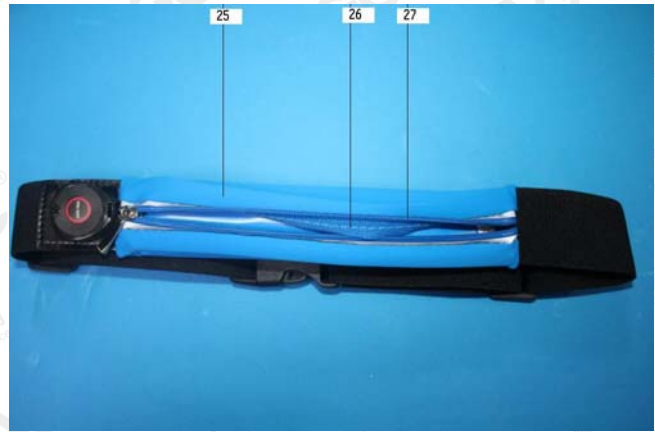
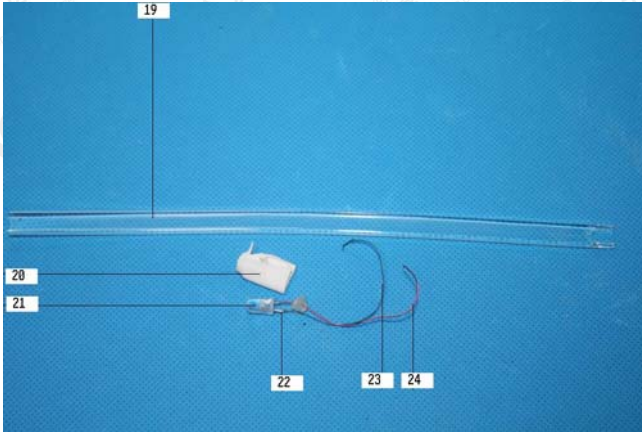
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

# Test Report

Report No.: AGC03507190306-001

Date: Mar.21, 2019

Page 19 of 19



**AGC03507190306-001**  
AGC authenticate the photo only on original report  
\*\*\* End of Report \*\*\*

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.