Test Report

Report No.	:	AGC05443220822-001S2

SAMPLE NAME	:	Scratching painting notebook，Drawing set
MODEL NAME	:	MO6699, MO6769
APPLICANT	:	MID OCEAN BRANDS B.V
STANDARD(S)	:	Please refer to the followingpage(s).
DATE OF ISSUE	:	Sep.16, 2022

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.

Applicant	:	MID OCEAN BRANDS B.V
Address	:	7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site	:	2,6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

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

Sample Name	:	Scratching painting notebook，Drawing set
Model	:	MO6699, MO6769
Country of Origin	:	CHINA
Country of Destination	:	EUROPE
Vendor code	:	106613
Labeled Age Grading	:	Not stated
Requested Age Grading	:	3+
Age Group Applied in Testing	:	3+
Sample receiving state	:	Normal
Sample Received Date	:	Aug.31, 2022
Testing Period	:	Aug.31, 2022 to Sep.15, 2022

Approved by: Reed

Qinlianzhi, Reed

Laboratory Supervisor

Approved by: Jessie.Liang

Liangdan, Jessie.Liang

Technical Director

Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Sep.09, 2022	Invalid	Initial release
S1	Sep.15, 2022	Invalid	Add test items
S2	Sep.16, 2022	Valid	Add picture

Test Requested:	**Conclusion**
1. (1) European Standard on Safety of Toys:	
EN71-1: 2014+A1:2018 – Mechanical and Physical Properties	**Pass**
EN71-2:2020 – Flammability of Toys	**Pass**
EN71-3:2019+A1:2021–Migration of certain elements	**Pass**
(2) Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys	**Pass**
2. 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.	**Pass**
3. As specified by client, to determine the Phthalates content in the submitted sample(s) with reference to entry 51&52, Annex XVII of the REACH Regulation (EC) No 1907/2006.	**Pass**
4. As specified by client, to determine the Cadmium(Cd) content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.	**Pass**
5. As specified by client, to determine the Benzene content in the submitted sample(s) with reference to entry 5, Annex XVII of the REACH Regulation (EC) No 1907/2006.	**Pass**
6. As specified by client, to determine the Formaldehyde Release content in the submitted sample(s).	**Pass**

Test Result(s):

8. **(1)-1:EN71 Part 1: 2014+A1:2018 – Mechanical and Physical Properties**

Clause	Description	Result
4	GENERAL REQUIREMENTS	
4.1	Material cleanliness	Pass
4.2	Assembly	N/A
4.3	Flexible plastics sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	N/A
4.10	Parts moving against each other	N/A
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A

Clause	Description	Result
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy Disguise Costumes	N/A
4.27	Flying toys	N/A
5	TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	
5.1	General requirements	N/A
5.2	Filling materials	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically driven toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	PACKAGING	N/A
7	Warnings, markings and instructions for use	Pass

Note:

- As per client's requirement, the sample(s) was evaluated for use by children 3+
- N/A=Not Application
- Test result Clause 4.7, Clause7 were resubmitted sample on Sep. 05, 2022

(1)-2:EN71 Part 2:2020 - Flammability of Toys

Clause	Description	Result
4	Requirements	
4.1	General	Pass
4.2	Toys to be worn on the head	N/A
4.2.1	General	N/A
4.2.2	Beards, moustaches, wigs, etc, made from hair, pile or material with similar features (e.g. freehanging ribbons, paper or cloth strands), which protrude more than or equal to 50 mm from the surface of the toy	N/A
4.2.3	Beards, moustaches, wigs etc. made from hair, pile or material with similar features (e.g. freehanging ribbons, paper or cloth strands etc.), which protrude less than 50 mm from the surface of the toy	N/A
4.2.4	Full or partial moulded head masks	N/A
4.2.5	Flowing elements of toys to be worn on the head (except those covered by 4.2.2 and 4.2.3), hoods, head-dresses etc. and fabric masks which partially or fully cover the head, but excluding those items covered by 4.3	N/A
4.3	Toys disguise costumes and other toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft Filled Toys (animals and dolls, etc) with a piled or textile surface	N/A

Note:

N/A=Not Application

(1)-3 EN 71-3: 2019+A1:2021- Migration of Certain Elements.

Table 1

Permissible Limit for Different Materials(Unit: mg/kg)

Item	Category III In scraped-off toy material	Category II In liquid or sticky toy material	Category I In dry, brittle, powder-like or pliable toy material
Aluminium (Al) (M)	28130	560	2250
Antimony (Sb) (M)	560	11.3	45
Arsenic (As) (M)	47	0.9	3.8
Barium (Ba) (M)	18750	375	1500
Boron (B) (M)	15000	300	1200
Cadmium (Cd) (M)	17	0.3	1.3
Chromium III(Cr(III)) (M)	460	9.4	37.5
Chromium VI (Cr(VI)) (M)	0.053	0.005	0.02
Cobalt (Co) (M)	130	2.6	10.5
Copper (Cu) (M)	7700	156	622.5
Lead (Pb) (M)	23	0.5	2.0
Manganese (Mn) (M)	15000	300	1200
Mercury (Hg) (M)	94	1.9	7.5
Nickel (Ni) (M)	930	18.8	75
Selenium (Se) (M)	460	9.4	37.5
Strontium (Sr) (M)	56000	1125	4500
Tin (Sn) (M)	180000	3750	15000
Organic Tin (M)	12	0.2	0.9
Zinc (Zn) (M)	46000	938	3750

Category III: Scrapped - off toy material

Test method:EN 71-3:2019+A1:2021, Analysis was performed by ICP-OES, GC-MS.

Unit: mg/kg

Tested Item(s)	Result(s)					MDL	Limit
	1-1	1-2	1-3	1-9	1-10		
Aluminium (Al) (M)	293	N.D.	N.D.	N.D.	N.D.	50	See Table 1
Antimony (Sb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	2.0	
Arsenic (As) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	
Barium (Ba) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Boron (B) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Cadmium (Cd) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	
Chromium III (Cr(III)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	
Chromium VI (Cr(VI)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	
Cobalt (Co) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	
Copper (Cu) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Lead (Pb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.25	
Manganese (Mn) (M)	N.D.	N.D.	N.D.	N.D.	61	50	
Mercury (Hg) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	1.0	
Nickel (Ni) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	10	
Selenium (Se) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	5	
Strontium (Sr) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Tin (Sn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Organic Tin* (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.15	
Zinc (Zn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Conclusion	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	/	

Note: * = Migration of organic tin is expressed as tributyl tin cation content in mg/kg.

Unit: mg/kg

Tested Item(s)	Result(s)		MDL	Limit
	1-11	1-14		
Aluminium (Al) (M)	N.D.	N.D.	50	See Table 1
Antimony (Sb) (M)	N.D.	N.D.	2.0	
Arsenic (As) (M)	N.D.	N.D.	0.5	
Barium (Ba) (M)	N.D.	N.D.	50	
Boron (B) (M)	N.D.	N.D.	50	
Cadmium (Cd) (M)	N.D.	N.D.	0.3	
Chromium III (Cr(III)) (M)	N.D.	N.D.	0.2	
Chromium VI (Cr(VI)) (M)	N.D.	N.D.	0.005	
Cobalt (Co) (M)	N.D.	N.D.	2.5	
Copper (Cu) (M)	N.D.	N.D.	50	
Lead (Pb) (M)	N.D.	N.D.	0.25	
Manganese (Mn) (M)	N.D.	N.D.	50	
Mercury (Hg) (M)	N.D.	N.D.	1.0	
Nickel (Ni) (M)	N.D.	N.D.	10	
Selenium (Se) (M)	N.D.	N.D.	5	
Strontium (Sr) (M)	N.D.	N.D.	50	
Tin (Sn) (M)	N.D.	N.D.	50	
Organic Tin* (M)	N.D.	N.D.	0.15	
Zinc (Zn) (M)	N.D.	N.D.	50	
Conclusion	**Pass**	**Pass**	/	

Note: * = Migration of organic tin is expressed as tributyl tin cation content in mg/kg.

Category I：In dry, brittle, powder-like or pliable toy material

Test method:EN 71-3:2019+A1:2021, Analysis was performed by ICP-OES, GC-MS.

Unit: mg/kg

Tested Item(s)	Result(s)					MDL	Limit
	1-4	1-5	1-6	1-7	1-8		
Aluminium (Al) (M)	133	83	81	100	86	50	See Table 1
Antimony (Sb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	2.0	
Arsenic (As) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	
Barium (Ba) (M)	N.D.	N.D.	85	N.D.	N.D.	50	
Boron (B) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Cadmium (Cd) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	
Chromium III (Cr(III)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	
Chromium VI (Cr(VI)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	
Cobalt (Co) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	
Copper (Cu) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Lead (Pb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.25	
Manganese (Mn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Mercury (Hg) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	1.0	
Nickel (Ni) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	10	
Selenium (Se) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	5	
Strontium (Sr) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Tin (Sn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Organic Tin* (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.15	
Zinc (Zn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Conclusion	**Pass**	**Pass**	**Pass**	**Pass**	**Pass**	/	

Note: * = Migration of organic tin is expressed as tributyl tin cation content in mg/kg.

(2) Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys

Summary table:

	On product	On packaging
Washing/Cleaning instruction	/	/
CE mark	Absent	Present
Manufacturer's name	Absent	Absent
Manufacturer's address	Absent	Absent
Importer's name	Absent	Present
Importer's address	Absent	Present
Product ID	Absent	Present

Remark:

1: Washing/Cleaning label According to Directive 2009/48/EC the following safety requirements apply regarding cleaning and washing: A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The toy must fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.

2:Toys made available on the market must bear the CE marking. The CE marking must be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. In the case of small toys and toys consisting of small parts, the CE marking may alternatively be affixed to a label or an accompanying leaflet. Where, in the case of toys sold in counter displays, that is not technically possible, and on condition that the counter display was originally used as packaging for the toy, the CE marking may be affixed to the counter display. Where the CE marking is not visible from outside the packaging, if any, it shall as a minimum be affixed to the packaging. Where specific legislation does not impose specific dimensions, the CE marking must be at least 5 mm high.

3: The manufacturer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.

4: Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy

2. Test Result of Polycyclic-aromatic hydrocarbons (PAHs)Content

Test Item	Test Method/ Instrument	MDL	Limit
Benzo[a]pyrene (BaP) (CAS No.: 50-32-8)	AfPS GS 2019:01 PAK/ GC-MS	0.1mg/kg	Rubber or plastic components in Toys: Single≤0.5mg/kg
Benzo[e]pyrene(BeP) (CAS No.: 192-97-2)		0.1mg/kg	
Benzo[a]anthracene (BaA) (CAS No.: 56-55-3)		0.1mg/kg	
Benzo[b]fluoranthene (BbF) (CAS No.: 205-99-2)		0.1mg/kg	
Benzo[j]fluoranthene(BjFA) (CAS No.: 205-82-3)		0.1mg/kg	
Benzo[k]fluoranthene (BkF) (CAS No.: 207-08-9)		0.1mg/kg	
Chrysene (CHR) (CAS No.: 218-01-9)		0.1mg/kg	
Dibenzo[a,h]anthracene (DBA) (CAS No.: 53-70-3)		0.1mg/kg	

Test Item(s)	Result(s) (mg/kg)
	1-9
Benzo[a]pyrene (BaP)	N.D.
Benzo[e]pyrene(BeP)	N.D.
Benzo[a]anthracene (BaA)	N.D.
Benzo[b]fluoranthene (BbF)	N.D.
Benzo[j]fluoranthene(BjFA)	N.D.
Benzo[k]fluoranthene (BkF)	N.D.
Chrysene (CHR)	N.D.
Dibenzo[a,h]anthracene (DBA)	N.D.
Sum of PAHs	N.D.
Conclusion	**Conformity**

3. Test Result of Phthalates Content

Test Item	Test Method/ Instrument	MDL	Limit
Diisobutyl phthalate(DIBP) (CAS No.: 84-69-5)	EN 14372:2004/ GC-MS	0.010%	Single<0.1% Sum<0.1%
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		0.010%	
Butylbenzyl phthalate (BBP) (CAS No.: 85-68-7)		0.010%	
Di-(2-ethylhexyl) Phthalate (DEHP) (CAS No.: 117-81-7)		0.010%	
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	Sum<0.1%
Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0;68515-48-0)		0.010%	
Di-isodecyl phthalate(DIDP) (CAS No.: 26761-40-0; 68515-49-1)		0.010%	

Test point	Test result (%)									Conclusion
	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP +BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+ DINP+DIDP)	
1-9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	**Conformity**
1-12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	**Conformity**

4. Test Result of Cadmium(Cd) Content

Test Item	Cadmium(Cd) (CAS No.: 7440-43-9)
Limit(mg/kg)	<100
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-9	N.D.	**Conformity**
1-12	N.D.	**Conformity**

5. Test Result of Benzene Content

Test Item	Benzene (CAS No.: 71-43-2)
Limit(mg/kg)	≤5
MDL(mg/kg)	5
Test Method/ Instrument	EPA 3550C:2007 & EPA 8260D:2018/ GC-MS

Test point	**Test result (mg/kg)**	**Conclusion**
	Benzene	
1-9	N.D.	**Conformity**

6. Test Result of Formaldehyde Release

Test Item(s)	Formaldehyde Release
Limit (Client's Requirement) (mg/kg)	80
MDL (mg/kg)	1
Test Method/ Equipment	EN717-3:1996/ UV-Vis

Test point	**Test result (mg/kg)**	**Conclusion**
	Formaldehyde Release	
1-3	N.D.	**Conformity**
1-10	N.D.	**Conformity**
1-14	N.D.	**Conformity**

Note:

mg/kg =milligram per kilogram N.D.=Not Detected(less than method detection limit)

MDL = Method Detection Limit %= percentage

M = Migration

Remark:

- △=As specified by client, the submitted samples were mixed to test.
- As specified by client, only test the designated sample.
- As received, the test portion of specimen No.1-12 is less than 10mg by weight on one single sample. No need to test for EN 71-3:2019+A1:2021–Migration of certain elements.
- Accessible glass, ceramic and metallic toy components do not fit within the small parts cylinder, which cannot be swallowed, So No.1-13 is not tested for EN 71-3:2019+A1:2021–Migration of certain elements.
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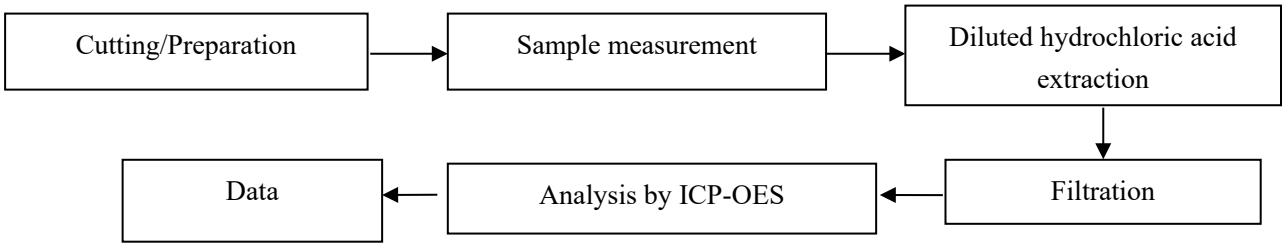
Test Point Description

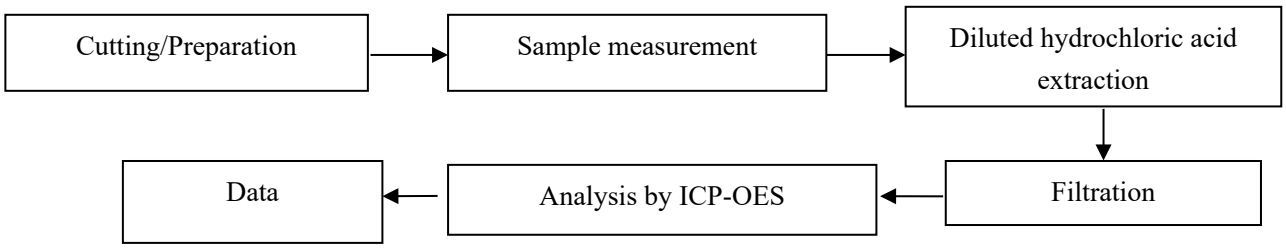
Test point	Test point description
1-1	Paper
1-2	White inner sheet
1-3	Wooden pen holder
1-4	Pink refill
1-5	Yellow refill
1-6	Red refill
1-7	Blue refill
1-8	Orange refill
1-9	White eraser
1-10	Wood sharpening penknife
1-11	Metal Blade
1-12	Black coating
1-13	Metal ring
1-14	Wood scraping pen stick

Test Flow Chart

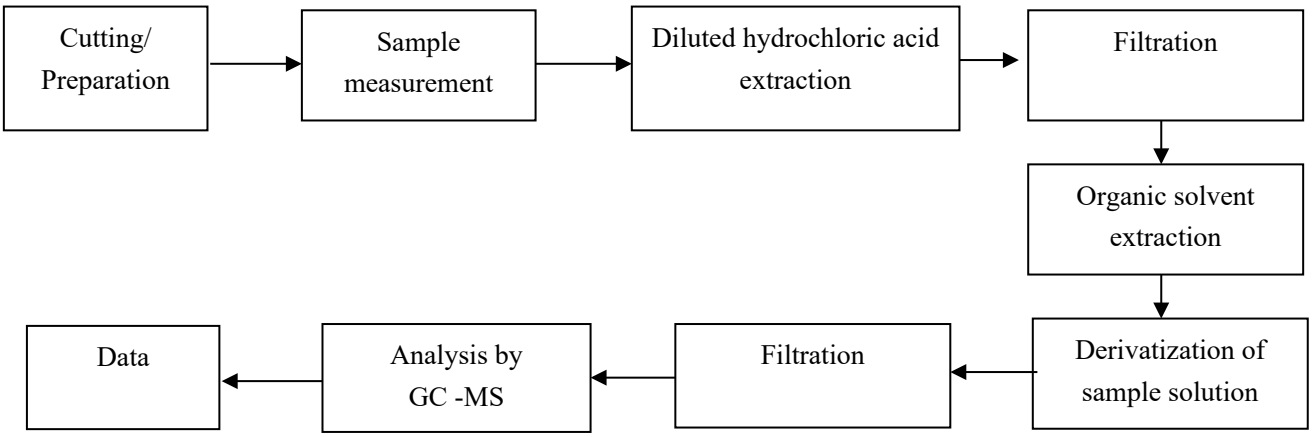
1. Test Flow Chart for Migration of 17 Heavy Metals-Lead, Cadmium, Chromium, Mercury, Antimony, Barium, Arsenic, Selenium, Aluminum, Boron, Cobalt, Copper, Manganese, Nickel, Strontium, Zinc and Tin:



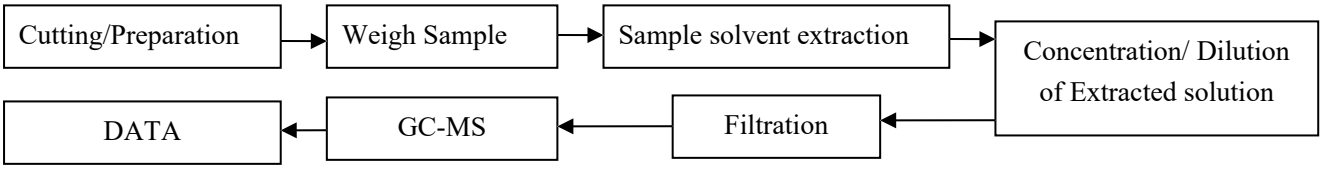
2. Test Flow Chart for Migration of Chromium(III) and Chromium(VI):



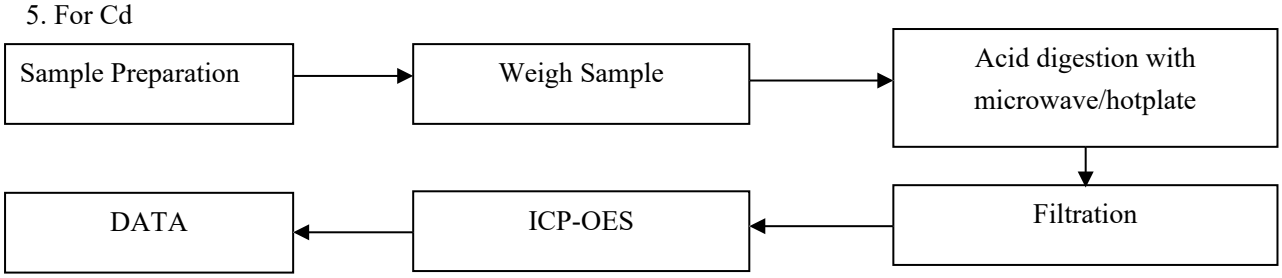
3.Test Flow Chart for Migration of Organic Tin Compounds:



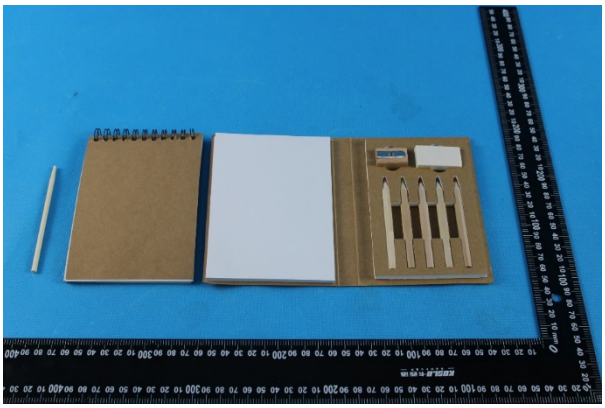
4. For PAHs, Phthalates, Benzene

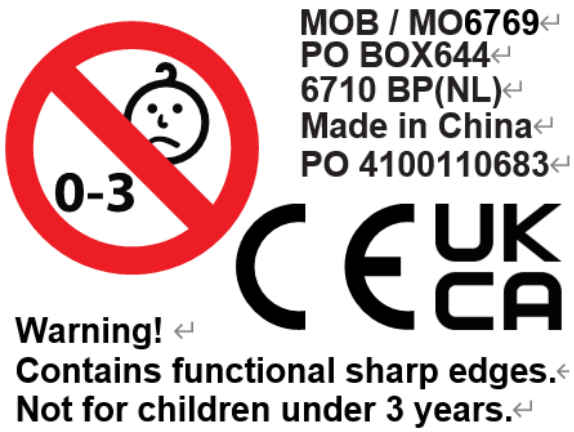


5. For Cd



The photo of the sample





AGC05443220822-001S2

AGC authenticate the photo only on original report

*** End of Report ***

Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.