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# Test Report

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Report No. : AGC05443220434-001

**SAMPLE NAME** : Baseball cap  
**MODEL NAME** : MO9643, MO9644  
**APPLICANT** : MID OCEAN BRANDS B.V  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : May 07, 2022

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Applicant : MID OCEAN BRANDS B.V  
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,  
Hong Kong.  
Test Site : 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 : Baseball cap  
Model : MO9643, MO9644  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Vendor code : 114914  
Sample Received Date : Apr.15, 2022  
Testing Period : Apr.15, 2022 to May 07, 2022

**Test Requested:****Conclusion**

- |   |             |
|---|-------------|
| 1. As specified by client, to determine the Aromatic Amines Azodyes(AZO) content in the submitted sample(s) with reference to entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006. | <b>Pass</b> |
| 2. 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.                | <b>Pass</b> |
| 3. 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.                  | <b>Pass</b> |
| 4. As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.                     | <b>Pass</b> |
| 5. As specified by client, to determine the Nickel Release in the submitted sample(s) with reference to entry 27, Annex XVII of the REACH Regulation (EC) No 1907/2006 .                      | <b>Pass</b> |
| 6. As specified by client, to determine Colour fastness to rubbing in the submitted sample(s).  | <b>Pass</b> |

Approved by: Huangguohua      Approved by: Jessie.Liang  
Huangguohua      Liangdan, Jessie.Liang  
Vice Laboratory Manager      Technical Director

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## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 07, 2022	Valid	Initial release

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**Test Result(s):**
**1. Test Result of Aromatic Amines Azodyes(AZO) Content**

Test Item	CAS No.	Test Method/ Instrument	MDL	Limit
4-Aminobiphenyl	92-67-1	EN ISO 14362-1:2017/ GC-MS	5mg/kg	≤30mg/kg
Benzidine	92-87-5		5mg/kg	≤30mg/kg
4-Chloro-o-Toluidine	95-69-2		5mg/kg	≤30mg/kg
2-Naphthylamine	91-59-8		5mg/kg	≤30mg/kg
4-amino-2',3-dimethylazobenzene	97-56-3		5mg/kg	≤30mg/kg
5-Nitro-o-toluidine	99-55-8		5mg/kg	≤30mg/kg
4-Chloroaniline	106-47-8		5mg/kg	≤30mg/kg
4-Methoxy-m-phenylenediamine	615-05-4		5mg/kg	≤30mg/kg
4,4'-Diaminodiphenylmethane	101-77-9		5mg/kg	≤30mg/kg
3,3'-Dichlorobenzidine	91-94-1		5mg/kg	≤30mg/kg
3,3'-Dimethoxybenzidine	119-90-4		5mg/kg	≤30mg/kg
3,3'-Dimethylbenzidine	119-93-7		5mg/kg	≤30mg/kg
4,4'-Methylenedi-o-toluidine	838-88-0		5mg/kg	≤30mg/kg
6-methoxy-m-toluidine	120-71-8		5mg/kg	≤30mg/kg
4,4'-methylenebis[2-chloroaniline]	101-14-4		5mg/kg	≤30mg/kg
4,4'-Oxydianiline	101-80-4		5mg/kg	≤30mg/kg
4,4'-Thiodianiline	139-65-1		5mg/kg	≤30mg/kg
2-Aminotoluene	95-53-4		5mg/kg	≤30mg/kg
4-methyl-m-phenylenediamine	95-80-7		5mg/kg	≤30mg/kg
2,4,5-Trimethylaniline	137-17-7		5mg/kg	≤30mg/kg
2-Methoxyaniline	90-04-0	5mg/kg	≤30mg/kg	
4-Aminoazobenzene <sup>a</sup>	60-09-3	5mg/kg	≤30mg/kg	

Note: <sup>a</sup> The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to aniline and/or 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine are detected, 4-aminoazobenzene shall be further determined by EN ISO 14362-3:2017.

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Test Item(s)	Result(s) (mg/kg)			
	1-1 <sup>△</sup>	1-2 <sup>△</sup>	1-3 <sup>△</sup>	1-4 <sup>△</sup>
4-Aminobiphenyl	N.D.	N.D.	N.D.	N.D.
Benzidine	N.D.	N.D.	N.D.	N.D.
4-Chloro-o-Toluidine	N.D.	N.D.	N.D.	N.D.
2-Naphthylamine	N.D.	N.D.	N.D.	N.D.
4-amino-2',3-dimethylazobenzene	N.D.	N.D.	N.D.	N.D.
5-Nitro-o-toluidine	N.D.	N.D.	N.D.	N.D.
4-Chloroaniline	N.D.	N.D.	N.D.	N.D.
4-Methoxy-m-phenylenediamine	N.D.	N.D.	N.D.	N.D.
4,4'-Diaminodiphenylmethane	N.D.	N.D.	N.D.	N.D.
3,3'-Dichlorobenzidine	N.D.	N.D.	N.D.	N.D.
3,3'-Dimethoxybenzidine	N.D.	N.D.	N.D.	N.D.
3,3'-Dimethylbenzidine	N.D.	N.D.	N.D.	N.D.
4,4'-Methylenedi-o-toluidine	N.D.	N.D.	N.D.	N.D.
6-methoxy-m-toluidine	N.D.	N.D.	N.D.	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.	N.D.	N.D.	N.D.
4,4'-Oxydianiline	N.D.	N.D.	N.D.	N.D.
4,4'-Thiodianiline	N.D.	N.D.	N.D.	N.D.
2-Aminotoluene	N.D.	N.D.	N.D.	N.D.
4-methyl-m-phenylenediamine	N.D.	N.D.	N.D.	N.D.
2,4,5-Trimethylaniline	N.D.	N.D.	N.D.	N.D.
2-Methoxyaniline	N.D.	N.D.	N.D.	N.D.
4-Aminoazobenzene	N.D.	N.D.	N.D.	N.D.
<b>Conclusion</b>	<b>Conformity</b>	<b>Conformity</b>	<b>Conformity</b>	<b>Conformity</b>

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**2. 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%	Sum<0.1%
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	
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)	
1-8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	<b>Conformity</b>

**3. Test Result of Cadmium(Cd) Content**

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

Test point	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-1 <sup>△</sup>	N.D.	<b>Conformity</b>
1-2 <sup>△</sup>	N.D.	<b>Conformity</b>
1-3 <sup>△</sup>	N.D.	<b>Conformity</b>
1-4 <sup>△</sup>	N.D.	<b>Conformity</b>
1-5	N.D.	<b>Conformity</b>
1-8	N.D.	<b>Conformity</b>

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**4. Test Result of Lead(Pb) Content**

<b>Test Item</b>	Lead(Pb) (CAS No.: 7439-92-1)
<b>Limit(mg/kg)</b>	<500
<b>MDL(mg/kg)</b>	10
<b>Test Method/ Instrument</b>	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1 <sup>△</sup>	N.D.	Conformity
1-2 <sup>△</sup>	N.D.	Conformity
1-3 <sup>△</sup>	N.D.	Conformity
1-4 <sup>△</sup>	N.D.	Conformity
1-5	N.D.	Conformity
1-6	67	Conformity
1-7	N.D.	Conformity
1-8	N.D.	Conformity

**5. Test Result of Nickel Release Content:**

<b>Test Item</b>	Nickel Release		
<b>Limit(<math>\mu\text{g}/\text{cm}^2/\text{week}</math>)</b>	Type of sample	Pass	Fail
	Article with Nickel release limit of $0.5\mu\text{g}/\text{cm}^2/\text{week}$ (Non-body piercing)	<0.88	$\geq 0.88$
	Article with Nickel release limit of $0.2\mu\text{g}/\text{cm}^2/\text{week}$ (Body piercing)	<0.35	$\geq 0.35$
<b>MDL(<math>\mu\text{g}/\text{cm}^2/\text{week}</math>)</b>	0.05		
<b>Test Method/ Instrument</b>	EN 12472:2020 EN 1811:2011+A1:2015 ICP-OES		

Test point	Test result ( $\mu\text{g}/\text{cm}^2/\text{week}$ )		Conclusion
	Nickel Release		
1-6	A	N.D.	Conformity
	B	N.D.	
	C	N.D.	

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Test point		Test result ( $\mu\text{g}/\text{cm}^2/\text{week}$ )		Conclusion
		Nickel Release		
1-7	A	N.D.		Conformity
	B	N.D.		
	C	N.D.		

**Note:**

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

MDL = Method Detection Limit                      %= percentage

$\mu\text{g}/\text{cm}^2/\text{week}$  = microgram per square centimeter per week

**Remark:**

- As specified by client, only test the designated sample.
- $\Delta$ =As specified by client, the submitted samples were mixed to test.

**6. Test Results of Colour fastness to rubbing**

**Test Method:** ISO 105-X12:2016

**Rubbing finger:** Cylinder

**The time of conditioning as well as the atmospheric conditions during testing:** 20 °C, 65 %R.H., 4 hrs

**The long direction of the specimen:** Warp/ Weft

**The percentage of soak of wet rubbing cloth:** 95%~100%

Test point	Test Result		Conclusion
	Colour fastness to rubbing / (Grade)		
	Dry rubbing	Wet rubbing	
1-9	4	2-3	Conformity
1-10	4	2-3	Conformity
1-11	4	3-4	Conformity
1-12	4	2-3	Conformity
1-13	4	2-3	Conformity
1-14	4	2-3	Conformity
1-15	4	2-3	Conformity
1-16	4	3-4	Conformity
1-17	4	3	Conformity
1-18	4	2-3	Conformity
<b>Limit (Client's Requirement)</b>	$\geq 2-3$	$\geq 2-3$	/

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**Note:**

Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

Grade 1 = Colour Change Seriously (Bad Grade)

9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.

**Remark:**

- Test result on specimen No.1-13 was resubmitted on May 05, 2022.

**Test Point Description**

Test point	Test point description
1-1	Black hat+Blue hat+Dark blue hat
1-2	White hat+Grey hat+Red hat
1-3	Black webbing+Blue webbing+Dark blue webbing
1-4	White webbing+Grey webbing+Red webbing
1-5	Cloth label
1-6	Metal buckle
1-7	Silver metal nail
1-8	White plastic
1-9	Black hat
1-10	Blue hat
1-11	Dark blue hat
1-12	Grey hat
1-13	Red hat
1-14	Black webbing
1-15	Blue webbing
1-16	Dark blue webbing
1-17	Grey webbing
1-18	Red webbing

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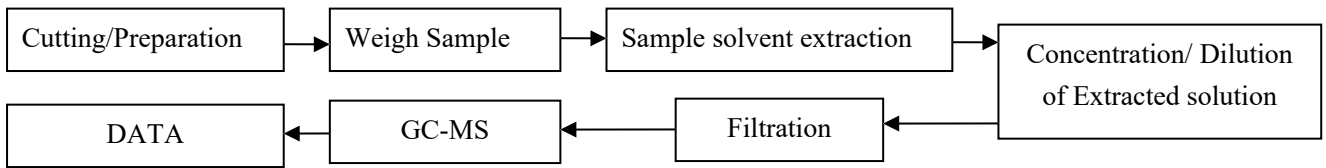
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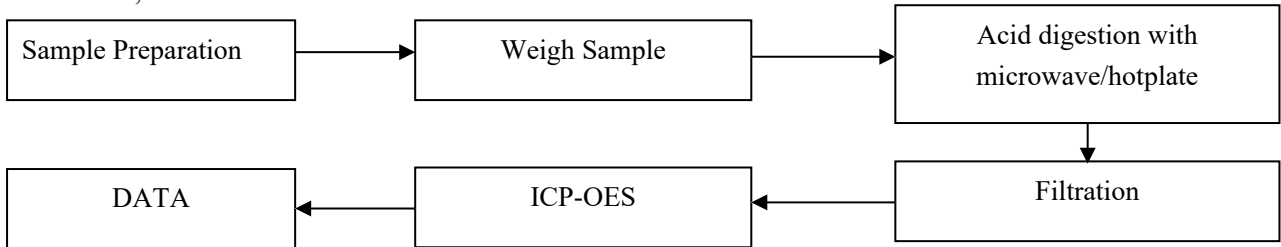
Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>

### Test Flow Chart

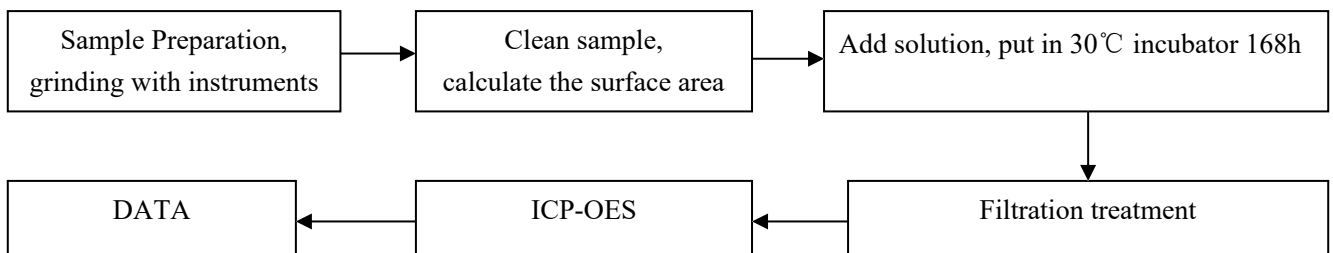
1. For AZO, Phthalates



2. For Cd, Pb



3. For Nickel Release



### The photo of the sample



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**AGC05443220434-001**  
AGC authenticate the photo only on original report  
\*\*\* End of Report \*\*\*

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## 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.

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