





Applicant: MID OCEAN BRANDS B.V. 7/F, KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG Date: Dec 04, 2023 THIS IS TO SUPERSEDE REPORT NO. GZHT91221350 DATED OCT 27, 2023

Attn: DEREK HUI

	sample s	aid to be BBQ glove in BBQ set.
Standard	:	BS EN ISO 21420:2020 / ISO 21420:2020 EN 407:2020, 4.4.1 & EN 659:2003+A1:2008
Size	:	
Ref.	:	104438
		Style No.: KC6388
		Öven glove
Date Received/Date Test S	Started	Oct 19, 2023/
Goods Exported to		Europe
Date Final Information Co	nfirmed/	/
Date Payment Received:	-	

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

Authorized By: For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Guiliang Dong Senior Lab Manager

/ andygtliu

Authorized By: For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Vivian Li

Vivian Li Assistant Technical Manager



Page 1 Of 10

Intertek Testing Services Shenzhen Atd, Guangzhou Branch 深圳天祥质量技、服务确限公司一州分公司 Room 401/501/601/801/901/1003, No. 8, Fast BaoYing Road, Buangpu District, Guangzhou 510730 广州市黄埔区保盈东路 8号 401宏、501发、601索、801房、901房、1003房 Tel: +86 20 2820 9114 Postcode: 50730 www.intertek.com

(6)



Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)

1 Cleaning (BS EN ISO 21420:2020 / ISO 21420:2020, 4.3)

As Care Instructions Were Provided, The Relevant Performance-related Tests Of This Document And The Specific Standards Were Performed On The Gloves, Before And After They Had Been Subjected To The Maximum Recommended Number Of Cleaning Cycles.

Wash Condition:	
Washing Standard:	ISO 6330:2012
Machine:	Туре А
Reagent:	Reference Detergent 3
Washing Procedure:	3N
Bleaching Procedure:	Do Not Bleach
Drying Procedure:	Do Not Tumble Dry, Line Drying
Ironing Procedure:	Do Not Iron
Professional Textile Care Procedure:	Do Not Dry Clean
Number Of Cycles:	25

2 Glove Design And Construction - General (BS EN ISO 21420:2020 / ISO 21420:2020, 4.1)

Requirement	Yes	No	N/A
The Protector Shall Be Designed And Manufactured So That In The Foreseeable			
Conditions Of Use, The User Can Perform The Activity As Normally As Possible			
With An Appropriate Protection. This Document Along With The Appropriate			
Specific Standards Shall Be Used To Verify This Adequation.			
If Required In The Relevant Specific Standard (For Example ISO 16073:2011,			
5.7.3), The Glove Shall Be Designed To Minimize The Donning And Doffing Time.			
For Reusable Multilayer Protector, The Gloves Shall Be Able To Doffed Without			
Separation Of The Layers Of The Fingers. When The Protector Construction			
Includes Seams, The Material And Strength Of The Seams Shall Be Such That			
The Overall Performance Of The Protector Is Not Significantly Decreased As			
Required In The Relevant Specific Standards.			

/ andygtliu

Page 2 Of 10

Intertek Testing Services Shenzhen td, Guangzhou Branch 深圳天祥质量技大服 MR人间广州分公司 Room 401/501/601/801/901/1003, No. 3, Fast BaoYing Rood, Buangpu District, Guangzhou 510730 广州市黄埔区保盈东路 8 号 201 房、501 房、601 房、901 房、1003 房 Tel: +86 20 2020 9114 Postcore 510730 www.intectek.com



Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)

3 Glove Length (BS EN ISO 21420: 2020 / ISO 21420:2020, 6.1)

Specimen 1	Glove Length:	227 mm
Specimen 2	Glove Length:	232 mm
Specimen 3	Glove Length:	233 mm

4 Time For The Removal Of The Gloves (EN 407:2020, 4.4.1 & EN 659:2003+A1:2008, 3.15)

Before Washing After Dry Conditioning (20±2℃, 6	5 \pm 5% R.H, 24 Hours):	Requirement	Pass/Fail
Sample 1: Sample 2: Sample 3: Mean:	1.1 seconds 1.2 seconds 1.3 seconds 1 second	Max. 3 seconds	Pass
After Washing After Dry Conditioning (20±2℃, 6	5 \pm 5% R.H, 24 Hours):	Requirement	Pass/Fail
Sample 1: Sample 2: Sample 3: Mean:	1.2 seconds 1.3 seconds 1.3 seconds 1 second	Max. 3 seconds	Pass

/ andygtliu

Intertek Testing Services Shenzhen td. Guangzhou Branch 深圳天祥质量技大服 筹旗限公司广州分公司 Room 401/501/601/801/901/1003, No. 3, East BaoYing Rood, Buangpu District, Guangzhou 510730 广州市黄埔区保盈东路 8 号 201案、501 房、601 宫、801 房、901 房、1003 房 Tel: +86 20 2820 9114 Postcore 510730

Contact Heat (EN 407:2020, 6.3 & EN ISO 12127-1:2015) **Before Washing** Palm Of The Glove Test Area: Threshold Time **Contact Temperature 250**℃ Specimen 1 23 seconds Specimen 2 25 seconds Specimen 3 24 seconds Innermost Layers Of The Glove Showed No Sign Of Melting And Holing. Observation (*): Contact Temperature Threshold Time **350**℃ 6 seconds Specimen 1 Specimen 2 6 seconds Specimen 3 6 seconds Observation (*): Innermost Layers Of The Glove Showed Sign Of Melting And Holing. After Washing Test Area: Palm Of The Glove Contact Temperature Threshold Time **250**℃ Specimen 1 25 seconds Specimen 2 26 seconds Specimen 3 25 seconds Observation (*): Innermost Layers Of The Glove Showed No Sign Of Melting And Holing. **Contact Temperature** Threshold Time 350℃ Specimen 1 5 seconds Specimen 2 5 seconds Specimen 3 5 seconds Observation (*): Innermost Layers Of The Glove Showed Sign Of Melting And Holing.

Performance Level (*1 & *2):

intertek

Total Quality. Assured.

TEST REPORT

5

Innermost Layers Of The Glove Shall Show No Sign Of Melting And Holing. The Performance Level Based On The Lowest Of The Single Value. Remark: * = *1 =

For Contact Heat Performance Levels Of 3 Or 4, The Limited Flame Spread Test Shall Be *2 = Performed. The Product Shall Reach At Least Level 3 In The Limited Flame Spread Test, Otherwise The Maximum Contact Heat Performance That Shall Be Reported Is Level 2.

2

Performance Level	Contact Temperature Tc ($^{\circ}$ C)	Threshold Time t _t (s)
1	100	≥ 15
2	250	≥ 15
3	350	≥ 15
4	500	≥ 15

NI (6)

/ andygtliu

Intertek Testing Services Shenzhen ktd. Guangzhou Branch 深圳天祥质量技、服务确定公司一州分公司 Room 401/501/601/801/901/1003, No. 8, Fast BaoYing Road, Buangpu District, Guangzhou 510730 广州市黄埔区保盈东路 8号 401 宏、501 宏、601 宏、801 房、901 房、1003 房 Tel: +86 20 2820 9114 Postcode: 50730 www.intertek.com

Page 4 Of 10

Tests Conducted (As Requested By The Applicant)





Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)

6 Tear Resistance (EN 407:2020, 6.8)

Before Washing			
Test Area:	Palm Of The Glove	Requirement	Pass/Fail
Specimen 1:	197 N	\geqslant 10 N	Pass
Specimen 2:	169 N	\geqslant 10 N	Pass
Specimen 3:	193 N	\geqslant 10 N	Pass
Specimen 4:	180 N	\geqslant 10 N	Pass
After Washing			
		<u>Requirement</u>	<u>Pass/Fail</u>
Test Area:	Palm Of The Glove		
Specimen 1:	154 N	\geqslant 10 N	Pass
Specimen 2:	201 N	\geqslant 10 N	Pass
Specimen 3:	148 N	\geqslant 10 N	Pass
Specimen 4:	169 N	\geqslant 10 N	Pass

/ andygtliu

Intertek Testing Services Shenzhen td. Guangzhou Branch 深圳天祥质量技大服 筹旗限公司广州分公司 Room 401/501/601/801/901/1003, No. 3, East BaoYing Rood, Buangpu District, Guangzhou 510730 广州市黄埔区保盈东路 8 号 201案、501 房、601 宫、801 房、901 房、1003 房 Tel: +86 20 2820 9114 Postcore 510730



Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)

7 Limited Flame Spread For Complete Gloves (EN 407:2020, 6.2 & EN ISO 15025:2016, Method B – Bottom-edge Ignition)

Before Washing

Test Area:Finger AreaFlame Application Time:10 s

	After-Flame Time (s)	After-Glow Time (s)
Specimen 1:	> 20 (*2)	-
Specimen 2:	> 20 (*2)	-
Specimen 3:	> 20 (*2)	-
Observation (*):		-

After Washing

Test Area:	Finger Area
Flame Application Time:	10 s

After-Flame Time (s)	After-Glow Time (s)
> 20 (*2)	-
> 20 (*2)	-
> 20 (*2)	-
	> 20 (*2) > 20 (*2)

Observation (*):

Performance Level (*1): Below The Minimum Performance Level For The Given Individual Hazard.

Remark: * = Surface Of The Innermost Layer Of The Glove Shall Be Inspected. It Shall Show No Sign Of Melting. No Hole Shall Appear On All Layers Of The Tested Area. The Seam Shall Not Come Apart After The Ignition Time. If The Outermost Layer Melts, The Material Shall Not Produce Molten Debris.

- *1 = The Lowest Test Result Defines The Level Of Performance.
- *2 = Test Suspended Due To Safety Reasons Caused By Excessive Flame.

Performance Level	After Flame Time (s)	After Glow Time (s)
1	≤ 15	No Requirement
2	≤ 10	≤ 120
3	≤ 3	≤ 25
4	≤ 2	≤ 5

/ andygtliu



Page 6 Of 10



Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)

8 pH Value

AS Per BS EN ISO 21420:2020, 4.2, With Reference To BS EN ISO 3071:2020 For Textile, Potassium Chloride (KCI) Solution Extracted, pH Value Was Measured By pH Meter.

Tested Components	Results	Requirement
(1)	6.5	*
(2)	6.4	*
(3)	6.4	*

Temperature Of The Extracting Solution: 23.4 $^\circ\!\mathrm{C}$ pH Of The Extracting Solution: 6.14

Remark: * = The pH Value Shall Be Greater Than 3.5 And Less Than 9.5

Tested Components: Please See Component List In The Last Section Of This Report.

Conclusion:

<u>Standard</u>	<u>Result</u>
BS EN ISO 21420:2020 For pH Value	Pass

/ andygtliu



Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)

9 Azo Colourants Content

With Reference To Test Method: Textile Method (ISO 14362-1:2017)

Amines Content Was Determined By Gas Chromatography-Mass Spectrometry (GC-MS)

	Forbidden Amine	CAS No.	Results (mg/kg)	
			Method T	Method D
			(1)	(1)
1.	4-Aminodiphenyl	92-67-1	<5	<5
2.	Benzidine	92-87-5	<5	<5
3.	4-Chloro-o-toluidine	95-69-2	<5	<5
4.	2-Naphthylamine	91-59-8	<5	<5
5.	o-Aminoazotoluene	97-56-3	<5	<5
6.	2-Amino-4-nitrotoluene	99-55-8	<5	<5
7.	p-Chloroaniline	106-47-8	<5	<5
8.	2,4-Diaminoanisole	615-05-4	<5	<5
9.	4,4'-Diaminodiphenylmethane	101-77-9	<5	<5
	3,3'-Dichlorobenzidine	91-94-1	<5	<5
	3,3'-Dimethoxybenzidine	119-90-4	<5	<5
12.	3,3'-Dimethylbenzidine	119-93-7	<5	<5
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	<5	<5
14.	p-Cresidine	120-71-8	<5	<5
15.	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	<5	<5
16.	4,4'-Oxydianiline	101-80-4	<5	<5
17.	4,4'-Thiodianiline	139-65-1	<5	<5
18.	o-Toluidine	95-53-4	<5	<5
	2,4-Toluylenediamine	95-80-7	<5	<5
20.	2,4,5-Trimethylaniline	137-17-7	<5	<5
21.	o-Anisidine	90-04-0	<5	<5
22.	4-Aminoazobenzene	60-09-3	<5	<5

Remark: Requirement = 30 mg/kg Reporting Limit = 5 mg/kg Method T: Direct Buffer Extraction As Per ISO 14362-1:2017 Section 10.2 Method D: Colourant Extraction With Xylene As Per ISO 14362-1:2017 Section 10.1

Tested Components: Please See Component List In The Last Section Of This Report

-	
Conc	lusion:
COLIC	asioni

<u>Standard</u>	<u>Result</u>
BS EN ISO 21420:2020 Protective Gloves - General	Pass
Requirements And Test Methods - Azo Colourants Content	

/ andygtliu

Page 8 Of 10

Intertek Testing Services ShellZhei Ltd. Guangzhou Branch 深圳天祥质量技光跟激频限公司广州分公司 Room 401/501/601/801/901/1003, No. 8, East BaoYing Rood, Buangpu District, Guangzhou 510730 广州市黄埔区保盈东路 8号 401 年、501 后、601 高、801 房、901 房、1003 房 Tel: +86 名 2520 9114 Postcore 50730 WWW intertek.com

(6)



Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)

Component List:

(1) Red 95% Polyester And 5% Cotton (Palm/Back/Binding).

(2) White 100% Polyester (Lining).

(3) White 100% Polyester (Interlayer Padding).

/ andygtliu

Intertek Testing Services Shenzhei Ltd. Guangzhou Branch 深圳天祥质量技大服 筹旗限公司广州分公司 Room 401/501/601/801/901/1003, No. 3, East BaoYing Rood, Buangpu District, Guangzhou 510730 广州市黄埔区保盈东路 8 号 401 毫、501 后、601 高、801 房、901 房、1003 房 Tel: +86 20 2820 9114 Postcore 510730 www.intertek.com Page 9 Of 10

intertek Total Quality. Assured.



Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)



End Of Report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. No copy of the test report(except for full text copy) shall be made without the written approval by Intertek.

Remark:

- 1. As Requested by the Applicant, For Details Refer to Attached Page (S).
- 2. All the tested item are tested under the standard condition.
- 3. The report is valid with commission test only for the test samples in the case of delivering samples by clients.



Intertek Testing Services Shenzhen 上在, Guangzhou Branch 深圳天祥质量技大服繁殖服公司广州分公司 Room 401/501/601/801/901/1003, No. 8, East Baoying Road, Buangpu District, Guangzhou 510730 广州市黄埔区保盈东路 8号 401最、501最、601最、801 房、901 房、1003 房 Tel: +86 20 2520 9114 Postcore 510730

(6)

/ andygtliu



To :MID OCEAN BRANDS B.V.Attention :DEREK HUI

Date : Dec 04, 2023

Re : Report Revision Notification

Labtest Report Number GZHT91221350 date OCT 27, 2023

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Labtest Report, Number GZHT91221350(S1), issued on Dec 04, 2023.

Thank you for your attention

Authorized By: For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Guiliang Dong Senior Lab Manager

Authorized By: For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Vivian Li

Vivian Li Assistant Technical Manager

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch 深圳天祥质量技光跟激频限公司广州分公司 Room 401/501/601/801/901/1003, No. 8, East BaoYing Rood, Buangpu District, Guangzhou 510730 广州市黄埔区保盈东路 8 号 401 爱 501 是 601 毫 801 房、901 房、1003 房 Tel: +86 20 2820 9114 Postcore: 500730 www.intertek.com 短短调号用草