

ULR - TC61761800003664P

TEST REPORT

Report No. : CH:TX:9420054173

DATE : 26/10/2018



TJHL 1810005686SD

NINGBO FENGLIN IMPORT & EXPORT CO.,LTD

ROOM 301, BLK 4,  
£49 CHANGXIN ROAD,  
YUYAO CITY,  
ZHEJIANG

A/C F619201 SGS-CSTC STANDARDS TECHNICAL SERVICES (TIANJIN) CO., LTD.

CONTACT PERSON : --

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED AND IDENTIFIED BY/ON BEHALF OF THE CUSTOMER AS :

<b>SAMPLE DESCRIPTION</b>	SINGLE OVEN GLOVE - PPE KITCHEN GLOVES
<b>COLOUR</b>	BLACK
<b>STYLE NO.</b>	5390
<b>ARTICLE NO.</b>	5390
<b>FIBRE CONTENT</b>	COTTON + POLYESTER
<b>CUSTOMER</b>	M/s. ARACO INTERNATIONAL BV
<b>COUNTRY OF DESTINATION</b>	NETHERLANDS
<b>COUNTRY OF ORIGIN</b>	INDIA
<b>PHOTO APPENDIX.</b>	



SAMPLE RECD ON

21/10/2018

TESTING PERIOD : 21/10/2018 - 26/10/2018

### Summary of Test Results

Test Method	Test Name	Status / Performance Level
BS 6526:1998	<b>Domestic oven gloves- Requirements and test methods.</b>	
	Material	Pass
	Dimensions	Pass
EN 407:2004	<b>Protective gloves against thermal risks (heat and/or fire.)</b>	
	Contact heat (As received & After wash)	Pass/Level-2
EN 420:2003+A1.2009	<b>Protective gloves - General requirements</b>	
	pH Value	Pass
	Azo dyes	Pass

Per pro SGS India Private Ltd.



**K. PACHAIYAPPAN**  
**ASST. MANAGER**

Email your Test Report Related Enquiries at [Feedback.SLT@sgs.com](mailto:Feedback.SLT@sgs.com)



## RESULTS

### BS 6526:1998 Domestic oven gloves- Requirements and test methods.

#### SINGLE OVEN GLOVE

Test Name & Clause	Test Method	BS 6526:1998 Requirements	Results Obtained	Status/Level								
4.2 Materials 4.2.1 Safe ironing temperature	BS 7305	a) The safe ironing temperature of the oven gloves shall be not less than 220°C. b) There shall be no sticking of the surface to the block. c) Any discoloration shall be reported in the test report.	- Safe ironing temp is 220°C - No sticking/Stiffening is observed - No noticeable shade change is observed.	Pass								
4.2.2 Multi-layer construction oven gloves	BS 6526	When touched and observed, the layer of multi-layer construction oven gloves shall not separate or deform such that the glove comes apart and the insulation shall be uniform within the total pockets or palm area	- No migration of filling material is observed. - All layers are securely attached.	Pass								
4.2.3 Thickness of back of the hand of non-reversible gloves	BS EN ISO 5084	For oven gloves that are not reversible, the minimum thickness of material covering the back of the hand shall be 1.5 mm.	Reversible glove, not applicable	/								
4.4 Dimensions	BS 6526	240 mm from the inside finger tip of the glove to the cuff edge; 140 mm for the inside width measured at the cuff edge. 120 mm internal width across the palm to the thumb join for gloves with a thumb	<table border="1"> <thead> <tr> <th>Dimension</th> <th>Results</th> </tr> </thead> <tbody> <tr> <td>Inside length of glove</td> <td>270 mm</td> </tr> <tr> <td>Width at the cuff edge:</td> <td>165 mm</td> </tr> <tr> <td>Width across the palm</td> <td>130 mm</td> </tr> </tbody> </table>	Dimension	Results	Inside length of glove	270 mm	Width at the cuff edge:	165 mm	Width across the palm	130 mm	Pass
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### EN 407: 2004 Protective gloves against thermal risks (heat and/or fire).

#### SINGLE OVEN GLOVE

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5.2 Contact heat As received	ISO 12127-1 Contact Temp T <sub>c</sub> = 250°C	<table border="1"> <thead> <tr> <th>Performance Level</th> <th>Contact Temp T<sub>c</sub></th> <th>Threshold Time t<sub>t</sub></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>100°C</td> <td>≥ 15s</td> </tr> <tr> <td>2</td> <td>250°C</td> <td>≥ 15s</td> </tr> <tr> <td>3</td> <td>350°C</td> <td>≥ 15s</td> </tr> <tr> <td>4</td> <td>500°C</td> <td>≥ 15s</td> </tr> </tbody> </table>	Performance Level	Contact Temp T <sub>c</sub>	Threshold Time t <sub>t</sub>	1	100°C	≥ 15s	2	250°C	≥ 15s	3	350°C	≥ 15s	4	500°C	≥ 15s	<table border="1"> <thead> <tr> <th>Specimen</th> <th>Threshold Time t<sub>t</sub></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>18.8s</td> </tr> <tr> <td>2</td> <td>15.3s</td> </tr> <tr> <td>3</td> <td>19.1s</td> </tr> <tr> <td>Rounded Mean</td> <td>18s</td> </tr> </tbody> </table>	Specimen	Threshold Time t <sub>t</sub>	1	18.8s	2	15.3s	3	19.1s	Rounded Mean	18s	Pass Level-2
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EN 407:2004 (Clause 5.2) & BS 6526:1998 (Clause 4.2 & 4.4) tests were made after Twenty five wash/drain cycle in accordance with ISO 6330 at 30°C, Machine wash, Normal cycle, flat dry as per client care information

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## RESULTS

### pH VALUE

With reference to ISO 3071:2005/Analysis by pH meter

Extraction Solution : KCL

#### SHELL FABRIC – BLACK

Value	7.9	3.5 - 9.5
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#### LINING FABRIC – RAW WHITE

Value	7.9	3.5 - 9.5
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Note : pH value of extraction medium : 5.0 – 7.5

Temperature of the extraction solution : 25±2 °C

Note: Requirements given as per EN 420:2003 +A1:2009 (Clause: 4.3.2).

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## RESULTS

### Determination of Certain Listed Aromatic Amines Derived from Azo Colourants

#### EN 14362-1:2012

Test Method: According to EN 14362-1:2012 with the use of Gas Chromatography - Mass Spectrometry (GC-MS) / High Performance Liquid Chromatography - Diode Array Detector (HPLC-DAD)

#### SHELL FABRIC – BLACK

No.	Forbidden Amines Substances	CAS-No.	Result mg/kg
1	4-Aminobiphenyl	92-67-1	ND
2	Benzidine	92-87-5	ND
3	4-Chlor-o-toluidine	95-69-2	ND
4	2-Naphthylamine	91-59-8	ND
5	o-Aminoazotoluene	97-56-3	ND
6	5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	ND
7	4-Chloroaniline	106-47-8	ND
8	4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	ND
10	3,3'-Dichlorobenzidine	91-94-1	ND
11	3,3'-Dimethoxybenzidine	119-90-4	ND
12	3,3'-Dimethylbenzidine	119-93-7	ND
13	4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	ND
14	p-Cresidine	120-71-8	ND
15	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	ND
16	4,4'-Oxydianiline	101-80-4	ND
17	4,4'-Thiodianiline	139-65-1	ND
18	o-Toluidine	95-53-4	ND
19	4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	ND
20	2,4,5-Trimethylaniline	137-17-7	ND
21	4-aminoazobenzene	60-09-3	ND
22	O-Anisidine	90-04-0	ND
23	2,6 - Xylidine	87-62-7	ND
24	2,4 - Xylidine	95-68-1	ND
	<b>Conclusion</b>		<b>PASS</b>



## Note:

ND=Not Detected

Method Detection Limit=5mg/kg(ppm) (for individual compound)

Max Limit = 30 mg/kg (ppm)

## Remark:

The EN 14362-1:2012 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg).

Otherwise, the test method of EN 14362-3:2012 will be employed to verify the presence of 4-aminoazobenzene.

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

\*\*\*\* End of Report \*\*\*\*