EU Type-examination Certificate

Number: UE-000171/00

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MID OCEAN BV

WELLENSIEKSTRAAT 2
6718 XZ EDE - THE NETHERLANDS

Certificate issued by **Eurofins Textile Testing Spain, S.L. (Unipersonal)** as notified body nº 2865 in accordance with Annex V (Module B) of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment (PPE).

PPE Type	**OVEN GLOVE**
Reference	**MO6647-03**
Variant(s)	**MO6647-05**
Description / Sizes: Mitten color black or red. One size	

The protective equipment abovementioned complies with the essential health and safety requirements applicable, according to Annex II of Regulation (EU) 2016/425 as **Category II** PPE.

Harmonised standard(s):

- EN ISO 21420:2020
- EN 407:2020

Performance level(s) obtained:

- For thermal domestics risks:
- CONTACT HEAT LEVEL 2

Other technical specifications: ---

For Category III PPE, this EU type-examination certificate must be used in conjunction with one of the conformity assessment procedures base on internal production control plus supervised product checks at random intervals (Module C2) or based on the quality assurance of the production process (Module D), according to Regulation (EU) 2016/425.

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Digitally signed by MARTA MARIA|NIETO|ARAUJO
Date: 2022.07.05 10:14:13 +02'00'

Date of Issue: 05/07/2022
Expiry date: 05/07/2027
Renovation date: __/__/____

Marta Nieto Araujo
Certification director

Eurofins Textile Testing Spain, S.L.U.
C/ Germán Bernácer 4
03203 Elche (Alicante) - España

ENAC
CERTIFICACIÓN ISO 17065 Nº179 / C-PR383

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TECHNICAL REPORT FOR EU TYPE-EXAM CERTIFICATION of Personal Protective Equipment (PPE)

EU TYPE EXAMINATION Nº:

UE-000171/00

APPLICATION DATE: 28/04/2022

DATE OF ISSUE: 05/07/2022

APPLICANT:

MID OCEAN BV
WELLENSIEKSTRAAT 2
6718 XZ EDE - THE NETHERLANDS

PPE TYPE: OVEN GLOVE

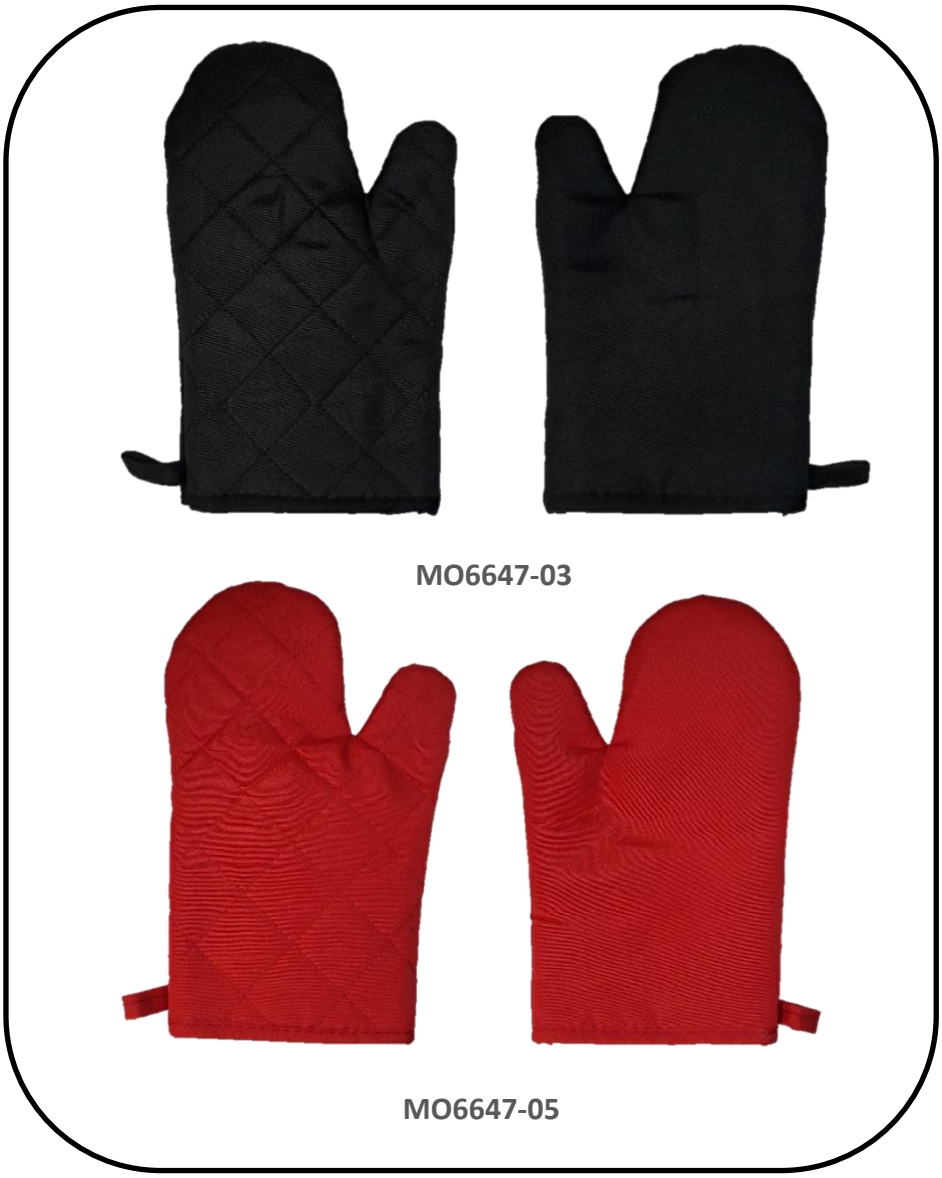
REFERENCE (PPE): MO6647-03 / MO6647-05

INDEX:

1. PPE IDENTIFICATION

1.1 Description and photography

Mitten colour black or red with a plain side and a padded side.



1.2 Description of the components

PPE components according to the information supplied by the manufacturer, are:

- External fabric: 95% Polyester 5% Cotton
- Lining: 100% Polyester

1.3 Sizes

According to the information supplied by the manufacturer, this PPE is commercialized in the following sizes:

Size	Length of the user's hand (mm)	Perimeter of the user's hand (mm)
One size	192-203	229-255

1.4 Samples given for certification

On date 20/04/2022 (20) twenty black gloves and (20) twenty red gloves and (20) twenty black gloves arrived at the laboratory.

2. CERTIFICATION SCOPE

- **EN ISO 21420:2020** Protective gloves - General requirements and test methods.
- **EN ISO 407:2004** Protective gloves and other hand protective equipments against thermal risks (heat and/or fire).

  For the protection of the hands of the user against the following risks:

  - Risk of burning due to contact heat.

3. DOCUMENTATION SUBMITTED

- Technical documentation, including the next points:
- Complete description of the PPE and of its intended use
- Assessment of the risks against which the PPE is intended to protect
- List of the essential health and safety requirements that are applicable
- Design and manufacturing drawings and schemes of the PPE and of its components and explanations
- Reference of the harmonized standards and/ or other technical specifications
- Reports on the tests carried out to verify the conformity of the PPE
- A description of the means used by the manufacturer during the production (Module C)
  - Manufacturer´s instructions
  - Marking
  - Declaration of conformity

4. RELATIONSHIP BETWEEN THIS EUROPEAN STANDARD AND ANNEX II OF REGULATION (EU) 2016/425 ON PPE

- **EN ISO 21420:2020** Protective gloves - General requirements and test methods

Essential Health and Safety Requirements, according to Annex II of Regulation (EU) 2016/425	Clause(s) / sub-clause(s) of the standard EN ISO 21420:2020	Result
1.2.1.1 Suitable constituent materials	4.2	Meet ☒ Not meet ☐ Not applicable ☐
1.2.1.3 Maximum permissible user impediment	5.2	Meet ☒ Not meet ☐ Not applicable ☐
1.4 Manufacturer's instructions and information	7.3	Meet ☒ Not meet ☐ Not applicable ☐
2.4 PPE subject to ageing	4.3; 7.2.1.1 f) and 7.2.2 g)	Meet ☒ Not meet ☐ Not applicable ☐
2.5 PPE which may be caught up during use	7.3.7	Meet ☒ Not meet ☐ Not applicable ☐
2.6 PPE for use in potentially explosive atmospheres	4.4	Meet ☐ Not meet ☐ Not applicable ☒
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	7.2.1.1 d); 7.2.2 e) and 7.3.5	Meet ☒ Not meet ☐ Not applicable ☐

- **EN ISO 407:2020** Protective gloves and other hand protective equipments against thermal risks (heat and/or fire).

Essential Health and Safety Requirements, according to Annex II of Regulation (EU) 2016/425	Clause(s) / sub-clause(s) of the standard EN 407:2020	Result
1.2.1 Absence of inherent risks and other nuisance factors	4.4.1	Meet ☒ Not meet ☐ Not applicable ☐
1.3.2 Lightness and strength	4.3	Meet ☒ Not meet ☐ Not applicable ☐
1.4 Manufacturer's instructions and information	8	Meet ☒ Not meet ☐ Not applicable ☐
2.7 PPE intended for rapid intervention or to be put on or removed rapidly	4.4.1 and 8 i)	Meet ☒ Not meet ☐ Not applicable ☐

2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	7	Meet ☒ Not meet ☐ Not applicable ☐
3.6 Protection against heat and/or fire	4.5	Meet ☒ Not meet ☐ Not applicable ☐

5. DEXTERITY

- **EN ISO 21420:2020** Protective gloves - General requirements and test methods

Requirement
After the evaluation of the dexterity according to point 5.2 of EN ISO 21420:2020, it is determined that the PPE is: Level of performance 0 ☒ Level of performance 1 ☐ Level of performance 2 ☐ Level of performance 3 ☐ Level of performance 4 ☐ Level of performance 5 ☐

6. SUMMARY OF RESULTS

LEGEND RESULTS	
M	Meet
NM	Not meet
NA	Not applicable
NT	Not tested

6.1. EN ISO 21420:2020 Protective gloves. General requirements and test methods.

TEST	BE APLICATED	STANDARD	REQUERIMENTS	*UoM.	REPORT Nº	RESULT
Determination of content in Chromium (VI) point 4.2	Each layer of material (Leather)	ISO 17075-1 o ISO 17075-2	EN ISO 21420:2020, point 4.2 ≤ 3mg/kg	NA	NA	NA
Release of nickel point 4.2	All metallic materials in contact with the skin	EN 1811+A1:2015	EN ISO 21420:2020, point 4.2 < 0,5µg/cm² per week	NA	NA	NA
Determination of pH point 4.2	Black fabric / Red fabric / Non-woven / Padding	Leather ISO 4045 Others ISO 3071	EN ISO 21420:2020, point 4.2 > 3,5 and < 9,5	± 0,3	AR-22-YL-004646-02	M

Determination of azo colorants which release carcinogenic amines point 4.2	Black fabric / Red fabric	Textile EN 14362-1 Leather ISO 17234-1	EN ISO 21420:2020, point 4.2 Shall be not detectable	NA	AR-22-YL-004646-02	M
Dimethylformamide (DMFa) point 4.2	PU	EN 16778	EN ISO 21420:2020, point 4.2 ≤ 1000 mg/kg (0,1% weight/weight)	NA	NA	NA
Determination of Polycyclic aromatic hydrocarbons (PAHs) point 4.2	Rubber or plastic materials in contact with the skin	ISO / TS 16190	EN ISO 21420:2020, point 4.2 and table 1 ≤ 1 mg/kg (0,0001% by mass+ of this component)	NA	NA	NA
Cleaning point 4.3	Glove *25 washing cycles at 30°C, flat dry*	-	EN ISO 21420:2020, point 4.3 and 7.3.14	NA	AR-22-YL-004646-02	---
Electrostatic properties point 4.4.1	Exterior fabric / assembly	EN 16350	EN ISO 21420:2020, point 4.4.1 Additional electrostatic properties determined by the test standards EN 1149-1 or EN 1149-3	NT	NT	NT
Dexterity point 5.2	Glove	EN ISO 21420:2020, point 6.2	EN ISO 21420:2020, point 5.2 and table 2	NA	Point 5 of this report	Level 0
Marking point 7.2.1.1 (d and f) and 7.2.2 (e and g)	EN ISO 21420:2020, point 7.2.1.1 (d and f) and 7.2.2 (e and g)			NA	NA	M
Information supplied by the manufacturer point 7.3.5 and 7.3.7	EN ISO 21420:2020, point 7.3.5 and 7.3.7			NA	NA	M

6.2. EN ISO 407:2020 Protective gloves and other hand protective equipments against thermal risks (heat and/or fire).

TEST	BE APLICATED	STANDARD	REQUERIMENTS	*UoM.	REPORT Nº	RESULT
Tear resistance point 4.3	Outer fabric as received	EN 407:2020, point 6.8	EN 407:2020, point 4.3 ≥ 10 N	± 4 N	AR-22-YL-004646-02	M
	Outer fabric after washing			± 3 N		
Sizes point 4.4	Glove	EN ISO 21420:2020	EN 407:2020, point 4.4	NA	NA	NA
General Thermal performance point 4.5	Glove	EN 407:2020, point 4.5	EN 407:2020, point 4.5.1, Annex A	NA	NA	M
Limited flame spread point 4.5.2	Glove	EN 407:2020, point 6.2 ISO 15025:2016, method A	EN 407:2020, point 4.5.2, table 2	NT	NT	NT

Level	After flame	After glow time s
1	≤ 15	---
2	≤ 10	≤ 120
3	≤ 3	≤ 25
4	≤ 2	≤ 5

<table>
<tr><td>Limited flame spread
point 4.5.2</td><td>Glove</td><td>EN 407:2020, point 6.2
ISO 15025:2016, method B</td><td>EN 407:2020, point 4.5.2, table 2<table><tr><th>Level</th><th>After flame</th><th>After glow time s</th></tr><tr><td>1</td><td>≤ 15</td><td>---</td></tr><tr><td>2</td><td>≤ 10</td><td>≤ 120</td></tr><tr><td>3</td><td>≤ 3</td><td>≤ 25</td></tr><tr><td>4</td><td>≤ 2</td><td>≤ 5</td></tr></table></td><td>NT</td><td>NT</td><td>NT</td></tr>
<tr><td>Limited flame spread
point 4.5.2</td><td>Seams and accessories</td><td>EN 407:2020, point 6.2
ISO 15025:2016, method A</td><td>EN 407:2020, point 4.5.2, table 2<table><tr><th>Level</th><th>After flame</th><th>After glow time s</th></tr><tr><td>1</td><td>≤ 15</td><td>---</td></tr><tr><td>2</td><td>≤ 10</td><td>≤ 120</td></tr><tr><td>3</td><td>≤ 3</td><td>≤ 25</td></tr><tr><td>4</td><td>≤ 2</td><td>≤ 5</td></tr></table></td><td>NT</td><td>NT</td><td>NT</td></tr>
<tr><td>Contact heat
point 4.5.3</td><td>Padded side as received /
Plain side as received /
Padded side after washing /
Plain side after washing</td><td>EN 407:2020, point 6.3
ISO 12127-1:2015</td><td>EN 407:2020, point 4.5.3, table 3<table><tr><th>Level</th><th>TcºC</th><th>t_t s</th></tr><tr><td>1</td><td>100</td><td>≥ 15</td></tr><tr><td>2</td><td>250</td><td>≥ 15</td></tr><tr><td>3</td><td>350</td><td>≥ 15</td></tr><tr><td>4</td><td>500</td><td>≥ 15</td></tr></table></td><td>± 1,5 s / ± 2 s / ± 1,7 s / ± 1,9 s</td><td>AR-22-YL-004646-02</td><td>Level 2</td></tr>
<tr><td>Convective heat
point 4.5.4</td><td>Glove</td><td>ISO 9151:2016</td><td>EN 407:2020, point 4.5.4, table 4<table><tr><th>Level</th><th>HTI s</th></tr><tr><td>1</td><td>≥ 4</td></tr><tr><td>2</td><td>≥ 7</td></tr><tr><td>3</td><td>≥ 10</td></tr><tr><td>4</td><td>≥ 18</td></tr></table></td><td>NT</td><td>NT</td><td>NT</td></tr>
<tr><td>Radiant heat
point 4.5.5</td><td>Glove</td><td>ISO 6942:2002, method B</td><td>EN 407:2020, point 4.5.5, table 5<table><tr><th>Level</th><th>HT t_{24} s</th></tr><tr><td>1</td><td>≥ 7</td></tr><tr><td>2</td><td>≥ 20</td></tr><tr><td>3</td><td>≥ 50</td></tr><tr><td>4</td><td>≥ 95</td></tr></table></td><td>NT</td><td>NT</td><td>NT</td></tr>
<tr><td>Small splashes of molten metal
point 4.3</td><td>Glove</td><td>ISO 9150:1988</td><td>EN 407:2020, point 4.5.6, table 6<table><tr><th>Level</th><th>Nº of droplets</th></tr><tr><td>1</td><td>≥ 10</td></tr><tr><td>2</td><td>≥ 15</td></tr><tr><td>3</td><td>≥ 25</td></tr><tr><td>4</td><td>≥ 35</td></tr></table></td><td>NT</td><td>NT</td><td>NT</td></tr>
<tr><td>Large quantities of molten metal
point 4.3</td><td>Glove</td><td>ISO 9185:2007</td><td>EN 407:2020, point 4.5.7, table 7<table><tr><th>Level</th><th>Molten iron g.</th></tr><tr><td>1</td><td>≥ 10</td></tr><tr><td>2</td><td>≥ 15</td></tr><tr><td>3</td><td>≥ 25</td></tr><tr><td>4</td><td>≥ 35</td></tr></table></td><td>NT</td><td>NT</td><td>NT</td></tr>
<tr><td>Marking
point 7</td><td>Glove</td><td colspan="2">EN 407:2020, point 7</td><td>NA</td><td>NA</td><td>M</td></tr>
<tr><td>Information supplied by the manufacturer
point 8</td><td>Glove</td><td colspan="2">EN 407:2020, point 8</td><td>NA</td><td>NA</td><td>M</td></tr>
</table>

7. CONCLUSION

Based on the results obtained in the exams, evaluations and revisions the following can be deduced:

The PPE type **OVEN GLOVE** reference **MO6647-03 / MO6647-05**, classified as Category **II** Individual Protective Equipment and whose characteristics are stated in point 1 of this report, **COMPLIES** with the essential requirements established by Regulation (EU) 2016/425 of 9 March 2016 through the application of the standards and risks as stated in point 2 of this report.

Elche, 5th of July 2022

Signature of the conformity evaluator:

eurofins
Eurofins Textile Testing Spain, SLU
C/ German Bernacer 4, Elche (Alicante)
B66978059

Digitally signed by MELODIE|RUIZ|CABEZUELO
Date: 2022.07.05 10:07:10 +02'00'

Analytical Report Nr. AR-22-YL-004646-02
Sample code Nr. 560-2022-00004622
Date 18/05/2022

ANALYTICAL REPORT

Client Information

Mid Ocean Brands BV
Wellensiekstraat 2
Ede GLD the NETHERLANDS
+31 0 342 426 992
koblukb@midocean.com

For the attention of Ms. Bernadetta Kobluk

Sample Information

Order Code:	EUAA70-00016912
Reception Date:	29-Apr-2022
Analysis Starting Date:	29-Apr-2022
Analysis Ending Date:	16-May-2022
Sample code Nr.	560-2022-00004622
Sample described as:	Oven gloves, red and black

Requirements and decision rule

Customer requirements:	EN ISO 21420:2020; EN 407:2020
Decision Rule:	Binary Statement with Guard Band. Probability of False Acceptance <2,5%

Information provided by the customer(2)

Client Reference:	MO6647
Sample Description:	
Purchase Order Number:	

((1)this report cancels and replaces the previous one, numbered AR-22-YL-004646-01/560-2022-00004622 dated 16/05/2022 which must be destroyed)

Reason for new version: Client reference is modified due to error at registration.

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Analytical Report Nr. AR-22-YL-004646-02
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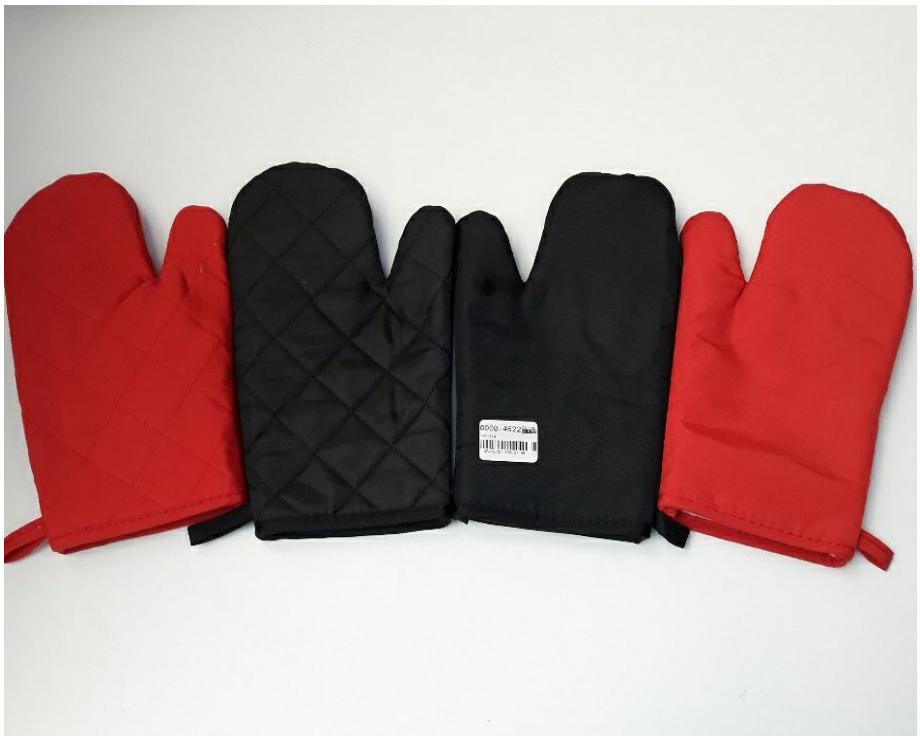
SAMPLE PICTURE



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CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS
Determination of azo dyes EN ISO 14362-1:2017			
A - Black outer fabric as received	X		
B - Red outer fabric as received	X		
Determination of pH of aqueous extract ISO 3071:2020			
A - Black outer fabric as received	X		
B - Red outer fabric as received	X		
C - White inner non-woven layer as received	X		
D - Padding as received	X		
Washing/Drying cycle ISO 6330:2012			
H - 25 washing cycles at 30ºC; flat dry			REFER RESULT
Tear resistance of protective gloves EN 388:2016+A1:2018, point 6.4			
G - Black+Red outer fabric as received	X		
K - Black+Red outer fabric after washing	X		
Determination of contact heat transmission ISO 12127-1:2015			
E - Padded side as received	X		
F - Plain side as received	X		
I - Padded side after washing	X		
J - Plain side after washing	X		

Remark: Test has been performed as per application request

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COMPONENT LIST:

COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
CUST 01	A - Black outer fabric as received	Fabric	Black	---
CUST 02	B - Red outer fabric as received	Fabric	Red	---
CUST 03	C - White inner non-woven layer as received	Non-woven	White	---
CUST 04	D - Padding as received	Padding	White	---
CUST 05	E - Padded side as received	Fabric	Black+Red	---
CUST 06	F - Plain side as received	Fabric	Black+Red	---
CUST 07	G - Black+Red outer fabric as received	Fabric	Black+Red	---
CUST 08	H - 25 washing cycles at 30ºC; flat dry	Fabric	---	---
CUST 09	I - Padded side after washing	Fabric	Black+Red	---
CUST 10	J - Plain side after washing	Fabric	Black+Red	---
CUST 11	K - Black+Red outer fabric after washing	Fabric	Black+Red	---

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Sample code Nr. 560-2022-00004622
Date 18/05/2022

Determination of azo dyes

EN ISO 14362-1:2017

Analyses on:A - Black outer fabric as received Analysis Ending Date: 11/05/2022

1-CHEMICAL TESTS	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES	
4-Aminobiphenyl	92-67-1	<5 mg/kg		5	< 20 mg/kg	PASS
Benzidin	92-87-5	<5 mg/kg		5	< 20 mg/kg	PASS
4-Chlorotoluidine	95-69-2	<5 mg/kg		5	< 20 mg/kg	PASS
2-Naphthylamine	91-59-8	<5 mg/kg		5	< 20 mg/kg	PASS
p-Chloroaniline	106-47-8	<5 mg/kg		5	< 20 mg/kg	PASS
2,4-Diaminoanisole	615-05-4	<5 mg/kg		5	< 20 mg/kg	PASS
4,4-Diaminodiphenylmethan	101-77-9	<5 mg/kg		5	< 20 mg/kg	PASS
3,3-Dichlorobenzidine	91-94-1	<5 mg/kg		5	< 20 mg/kg	PASS
3,3-Dimethoxybenzidine	119-90-4	<5 mg/kg		5	< 20 mg/kg	PASS
3,3-Dimethylbenzidine	119-93-7	<5 mg/kg		5	< 20 mg/kg	PASS
3,3-Dimethyl-4,4-diaminodiphenyl methane	838-88-0	<5 mg/kg		5	< 20 mg/kg	PASS
p-Cresidine	120-71-8	<5 mg/kg		5	< 20 mg/kg	PASS
4,4-Methylene-bis-2-chloroaniline	101-14-4	<5 mg/kg		5	< 20 mg/kg	PASS
4-Aminophenileter	101-80-4	<5 mg/kg		5	< 20 mg/kg	PASS
4,4-Thiodianilin	139-65-1	<5 mg/kg		5	< 20 mg/kg	PASS
o-Toluidin	95-53-4	<5 mg/kg		5	< 20 mg/kg	PASS
2,4-Diaminotoluene	95-80-7	<5 mg/kg		5	< 20 mg/kg	PASS
2,4,5-Trimethylaniline	137-17-7	<5 mg/kg		5	< 20 mg/kg	PASS
o-Anisidine	90-04-0	<5 mg/kg		5	< 20 mg/kg	PASS
2,4-Xylidine	95-68-1	<5 mg/kg		5	< 20 mg/kg	PASS
2,6-Xylidine	87-62-7	<5 mg/kg		5	< 20 mg/kg	PASS
Aniline *	62-53-3	<5 mg/kg		5	< 20 mg/kg	PASS
1-4-phenylenediamine *	106-50-3	<5 mg/kg		5	< 20 mg/kg	PASS
4-Chloro-o-toludinium chloride *	3165-93-3	<5 mg/kg		5	< 20 mg/kg	PASS

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1-CHEMICAL TESTS	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES	
2-Naphthylammoniumacetate *	553-00-4	<5 mg/kg		5	< 20 mg/kg	✓ PASS
4-Methoxy-m-phenylene Diammonium Sulphate *	39156-41-7	<5 mg/kg		5	< 20 mg/kg	✓ PASS
2,4,5-Trimethylaniline hydrochloride *	21436-97-5	<5 mg/kg		5	< 20 mg/kg	✓ PASS
Analyses on:B - Red outer fabric as received					Analysis Ending Date: 11/05/2022	
4-Aminobiphenyl	92-67-1	<5 mg/kg		5	< 20 mg/kg	✓ PASS
Benzidin	92-87-5	<5 mg/kg		5	< 20 mg/kg	✓ PASS
4-Chlorotoluidine	95-69-2	<5 mg/kg		5	< 20 mg/kg	✓ PASS
2-Naphthylamine	91-59-8	<5 mg/kg		5	< 20 mg/kg	✓ PASS
p-Chloroaniline	106-47-8	<5 mg/kg		5	< 20 mg/kg	✓ PASS
2,4-Diaminoanisole	615-05-4	<5 mg/kg		5	< 20 mg/kg	✓ PASS
4,4-Diaminodiphenylmethan	101-77-9	<5 mg/kg		5	< 20 mg/kg	✓ PASS
3,3-Dichlorobenzidine	91-94-1	<5 mg/kg		5	< 20 mg/kg	✓ PASS
3,3-Dimethoxybenzidine	119-90-4	<5 mg/kg		5	< 20 mg/kg	✓ PASS
3,3-Dimethylbenzidine	119-93-7	<5 mg/kg		5	< 20 mg/kg	✓ PASS
3,3-Dimethyl-4,4-diaminodiphenyl methane	838-88-0	<5 mg/kg		5	< 20 mg/kg	✓ PASS
p-Cresidine	120-71-8	<5 mg/kg		5	< 20 mg/kg	✓ PASS
4,4-Methylene-bis-2-chloroaniline	101-14-4	<5 mg/kg		5	< 20 mg/kg	✓ PASS
4-Aminophenileter	101-80-4	<5 mg/kg		5	< 20 mg/kg	✓ PASS
4,4-Thiodianilin	139-65-1	<5 mg/kg		5	< 20 mg/kg	✓ PASS
o-Toluidin	95-53-4	<5 mg/kg		5	< 20 mg/kg	✓ PASS
2,4-Diaminotoluene	95-80-7	<5 mg/kg		5	< 20 mg/kg	✓ PASS
2,4,5-Trimethylaniline	137-17-7	<5 mg/kg		5	< 20 mg/kg	✓ PASS
o-Anisidine	90-04-0	<5 mg/kg		5	< 20 mg/kg	✓ PASS
2,4-Xylidine	95-68-1	<5 mg/kg		5	< 20 mg/kg	✓ PASS
2,6-Xylidine	87-62-7	<5 mg/kg		5	< 20 mg/kg	✓ PASS
Aniline *	62-53-3	<5 mg/kg		5	< 20 mg/kg	✓ PASS
1-4-phenylenediamine *	106-50-3	<5 mg/kg		5	< 20 mg/kg	✓ PASS
4-Chloro-o-toludinium chloride *	3165-93-3	<5 mg/kg		5	< 20 mg/kg	✓ PASS

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Analytical Report Nr. AR-22-YL-004646-02
Sample code Nr. 560-2022-00004622
Date 18/05/2022

1-CHEMICAL TESTS	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
2-Naphthylammoniumacetate *	553-00-4	<5 mg/kg		5	< 20 mg/kg ✓ PASS
4-Methoxy-m-phenylene Diammonium Sulphate *	39156-41-7	<5 mg/kg		5	< 20 mg/kg ✓ PASS
2,4,5-Trimethylaniline hydrochloride *	21436-97-5	<5 mg/kg		5	< 20 mg/kg ✓ PASS

Detection and quantification method: GC/MS
Sampling procedure: Section 9 EN ISO 14362-1:2017
Evaluation Procedure - Point 10.1 (EN ISO 14362-1:2017)

o-aminoazotoluene and 5-nitro-o-toluidine are further reduced to o-toluidine and 2,4-diaminotoluene.
Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS number 62-53-3) and 1,4 phenylendiamine (CAS-number 106-50-3). Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN 14362-3.

Determination of pH of aqueous extract

ISO 3071:2020

Analyses on:A - Black outer fabric as received Analysis Ending Date: 10/05/2022

Extractor solution pH value	6.1		-	
Extractor solution temperature	20.3 °C		-	
pH value (average)	6.8	(± 0.3)	-	Between 3.5 and 9.5 ✓ PASS

Analyses on:B - Red outer fabric as received Analysis Ending Date: 10/05/2022

Extractor solution pH value	6.1		-	
Extractor solution temperature	20.3 °C		-	
pH value (average)	6.8	(± 0.3)	-	Between 3.5 and 9.5 ✓ PASS

Analyses on:C - White inner non-woven layer as received Analysis Ending Date: 10/05/2022

Extractor solution pH value	6.1		-	
Extractor solution temperature	20.3 °C		-	
pH value (average)	6.8	(± 0.3)	-	Between 3.5 and 9.5 ✓ PASS

Analyses on:D - Padding as received Analysis Ending Date: 10/05/2022

Extractor solution pH value	6.1		-	
Extractor solution temperature	20.3 °C		-	
pH value (average)	6.7	(± 0.3)	-	Between 3.5 and 9.5 ✓ PASS

Extractor solution: KCl

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1-CHEMICAL TESTS	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES

2-PHYSICAL TESTS	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES

Washing/Drying cycle

ISO 6330:2012

Analyses on:H - 25 washing cycles at 30ºC; flat dry Analysis Ending Date: 13/05/2022

Number of washing cycles	25		-	
Type of washing machine	A		-	
Temperature	30 °C		-	
Washing procedure	3N		-	
Drying method	C - Flat dry		-	
Detergent used	Reference 3		-	
Specimen and ballast total dry mass	2 kg		-	
Type of ballast	Type III - 100% Polyester		-	

Tear resistance of protective gloves

EN 388:2016+A1:2018, point 6.4

Analyses on:G - Black+Red outer fabric as received Analysis Ending Date: 13/05/2022

Specimen 1: maximum force	29 N		-	
Specimen 2: maximum force	28 N		-	
Specimen 3: maximum force	32 N		-	
Specimen 4: maximum force	37 N		-	
Lowest value	28 N	(± 4) N	-	> 10 N ✓ PASS

Analyses on:K - Black+Red outer fabric after washing Analysis Ending Date: 13/05/2022

Specimen 1: maximum force	25 N		-	
Specimen 2: maximum force	27 N		-	
Specimen 3: maximum force	26 N		-	
Specimen 4: maximum force	27 N		-	
Lowest value	25 N	(± 3) N	-	> 10 N ✓ PASS

Specimen 1 and specimen 2:
Glove length direction from cuff to finger tips.

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Date 18/05/2022

2-PHYSICAL TESTS	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES

Specimen 3 and specimen 4:
Glove cross direction, across the palm with.

Test conditions (23±2)ºC, (50±5)% RH.
Sample conditioning > 24 h.

Classification level:
Level 1 =10 N
Level 2 =25 N
Level 3 =50 N
Level 4 =75 N

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3-PPE TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES

Determination of contact heat transmission

ISO 12127-1:2015

Analyses on:E - Padded side as received Analysis Ending Date: 16/05/2022

Contact temperature (Tc)	250 °C		-	
Threshold time (Tt) - S1	24.7 s		-	
Threshold time (Tt) - S2	22.5 s		-	
Threshold time (Tt) - S3	24.0 s		-	
Threshold time (Tt) - Average	23.7 s		-	
Threshold time (Tt) - Lowest	22.5 s	(± 1.5) s	-	Tt>15 s ✓ PASS

Level 1: Tc=100ºC
Level 2: Tc=250ºC
Level 3: Tc=350ºC
Level 4: Tc=500ºC

Analyses on:F - Plain side as received Analysis Ending Date: 16/05/2022

Contact temperature (Tc)	250 °C		-	
Threshold time (Tt) - S1	31.6 s		-	
Threshold time (Tt) - S2	32.5 s		-	
Threshold time (Tt) - S3	29.6 s		-	
Threshold time (Tt) - Average	31.2 s		-	
Threshold time (Tt) - Lowest	29.6 s	(± 2.0) s	-	Tt>15 s ✓ PASS

Level 1: Tc=100ºC
Level 2: Tc=250ºC
Level 3: Tc=350ºC
Level 4: Tc=500ºC

Analyses on:I - Padded side after washing Analysis Ending Date: 16/05/2022

Contact temperature (Tc)	250 °C		-	
Threshold time (Tt) - S1	26.2 s		-	
Threshold time (Tt) - S2	30.4 s		-	
Threshold time (Tt) - S3	25.8 s		-	
Threshold time (Tt) - Average	27.5 s		-	
Threshold time (Tt) - Lowest	25.8 s	(± 1.7) s	-	Tt>15 s ✓ PASS

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3-PPE TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
Level 1: Tc=100ºC Level 2: Tc=250ºC Level 3: Tc=350ºC Level 4: Tc=500ºC Remark: Adhesion in the layers.					
Analyses on:J - Plain side after washing					Analysis Ending Date: 16/05/2022
Contact temperature (Tc)		250 °C		-	
Threshold time (Tt) - S1		31.2 s		-	
Threshold time (Tt) - S2		28.2 s		-	
Threshold time (Tt) - S3		29.1 s		-	
Threshold time (Tt) - Average		29.5 s		-	
Threshold time (Tt) - Lowest		28.2 s	(± 1.9) s	-	Tt>15 s ✓ PASS
Level 1: Tc=100ºC Level 2: Tc=250ºC Level 3: Tc=350ºC Level 4: Tc=500ºC Remark: Adhesion in the layers.					

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Signed for and on behalf of Eurofins Textile Testing Spain:

Report electronically validated by

Maria Jesus Martinez Puig
Chemical Lab manager

EXPLANATORY NOTE

◆ Test not covered by ENAC accreditation scope
● Test is subcontracted within Eurofins group and is accredited
○ Test is subcontracted within Eurofins group and is not accredited
■ Test is subcontracted outside Eurofins group and is accredited
□ Test is subcontracted outside Eurofins group and is not accredited
N/A = Not Applicable

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End Of Report

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