

EU Type-examination Certificate

Number:
UE-000131/00

MID OCEAN BV

WELLENSIEKSTRAAT 2
6718 XZ EDE - THE NETHERLANDS

Certificate issued by **Eurofins Textile Testing Spain, S.L. (Unipersonal)** as notified body n° 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 **GLOVE**

Reference MO6381

Variant(s) ---

Description / Sizes: Mitten color white, grey or black. 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.



Date of Issue: 27/06/2022
Expiry date: 27/06/2027
Renovation date: __/__/__

Marta Nieto Araujo
Certification director

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

EU TYPE EXAMINATION N°:

UE-000131/00

APPLICATION DATE:

12/11/2021

DATE OF ISSUE:

27/06/2022

APPLICANT:

MID OCEAN BV
WELLENSIEKSTRAAT 2
6718 XZ EDE - THE NETHERLANDS

PPE TYPE:

OVEN GLOVE

REFERENCE (PPE):

MO6381

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ANNEX. - EU Type-Examination Certificate

1. PPE IDENTIFICATION

1.1 Description and photography

Mitten colour white, grey or black 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 100% Organic Cotton
- Lining: 100% Organic Cotton
- Padding: 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	182 – 192	203 – 229

1.4 Samples given for certification

On date 08/03/2022 (20) twenty white gloves, (20) twenty grey 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 <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.2.1.3 Maximum permissible user impediment	5.2	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.4 Manufacturer's instructions and information	7.3	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.4 PPE subject to ageing	4.3; 7.2.1.1 f) and 7.2.2 g)	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.5 PPE which may be caught up during use	7.3.7	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.6 PPE for use in potentially explosive atmospheres	4.4	Meet <input type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input checked="" type="checkbox"/>
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 <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>

- **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 <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.3.2 Lightness and strength	4.3	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
1.4 Manufacturer's instructions and information	8	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.7 PPE intended for rapid intervention or to be put on or removed rapidly	4.4.1 and 8 i)	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
2.12 PPE bearing one or more identification markings or indicators directly or indirectly relating to health and safety	7	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>
3.6 Protection against heat and/or fire	4.5	Meet <input checked="" type="checkbox"/>
		Not meet <input type="checkbox"/>
		Not applicable <input type="checkbox"/>

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		<input checked="" type="checkbox"/>
Level of performance 1		<input type="checkbox"/>
Level of performance 2		<input type="checkbox"/>
Level of performance 3		<input type="checkbox"/>
Level of performance 4		<input type="checkbox"/>
Level of performance 5		<input type="checkbox"/>

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 $\leq 3\text{mg/kg}$	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 $< 0,5\mu\text{g/cm}^2$ per week	NA	NA	NA
Determination of pH point 4.2	Black fabric / Grey fabric / White fabric / Non-woven / Padding	Leather ISO 4045 Others ISO 3071	EN ISO 21420:2020, point 4.2 $> 3,5$ and $< 9,5$	$\pm 0,3$	AR-22-YL-003026-01	M
Determination of azo colorants which release carcinogenic amines point 4.2	Black fabric / Grey fabric	Textile EN 14362-1 Leather ISO 17234-1	EN ISO 21420:2020, point 4.2 Shall be not detectable	NA	AR-22-YL-003026-01	M
Dimethylformamide (DMFa) point 4.2	PU	EN 16778	EN ISO 21420:2020, point 4.2 $\leq 1000\text{ mg/kg}$ (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 $\leq 1\text{ mg/kg}$ (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-003026-01	---
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	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 receive	EN 407:2020, point 6.8	EN 407:2020, point 4.3 ≥ 10 N	± 1,26 N	AR-22-YL- 003026-01	M		
	Outer fabric after washing			± 1,24 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						
Limited flame spread point 4.5.2	Glove	EN 407:2020, point 6.2 ISO 15025:2016, method B	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						
Limited flame spread point 4.5.2	Seams and accessories	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						
Contact heat point 4.5.3	Padded side as received / Plain side as received / Padded side after washing / Plain side after washing	EN 407:2020, point 6.3 ISO 12127- 1:2015	EN 407:2020, point 4.5.3, table 3	± 0,066 s	AR-22-YL- 003026-01	Level 2 M		
			Level				TcºC	t _t s
			1				100	≥ 15
			2				250	≥ 15
			3				350	≥ 15
4	500	≥ 15						
Convective heat point 4.5.4	Glove	ISO 9151:2016	EN 407:2020, point 4.5.4, table 4	NT	NT	NT		
			Level				HTI s	
			1				≥ 4	
			2				≥ 7	
			3				≥ 10	
4	≥ 18							
Radiant heat point 4.5.5	Glove	ISO 6942:2002, method B	EN 407:2020, point 4.5.5, table 5	NT	NT	NT		
			Level				HT t ₂₄ s	
			1				≥ 7	
			2				≥ 20	
			3				≥ 50	
4	≥ 95							
Small splashes of molten metal point 4.3	Glove	ISO 9150:1988	EN 407:2020, point 4.5.6, table 6	NT	NT	NT		
			Level				Nº of droplets	
			1				≥ 10	
			2				≥ 15	
			3				≥ 25	
4	≥ 35							

Large quantities of molten metal point 4.3	Glove	ISO 9185:2007	EN 407:2020, point 4.5.7, table 7		NT	NT	NT
			Level	Molten iron g.			
			1	≥ 10			
			2	≥ 15			
			3	≥ 25			
			4	≥ 35			
Marking point 7	Glove	EN 407:2020, point 7			NA	NA	M
Information supplied by the manufacturer point 8	Glove	EN 407:2020, point 8			NA	NA	M

7. CONCLUSION

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

The PPE type **OVEN GLOVE** reference **MO6381**, 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, 27th of June 2022

Signature of the conformity evaluator:

Analytical Report Nr.

AR-22-YL-003026-01

Sample code Nr.

560-2022-00002422

Date

30/03/2022

ANALYTICAL REPORT**Client Information**

Mid Ocean Brands BV
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+31 0 342 426 992
koblukb@midocean.com

For the attention of Ms. Bernadetta Kobluk

Sample Information

Order Code: EUAA70-00016065
Reception Date: 8-Mar-2022
Analysis Starting Date: 8-Mar-2022
Analysis Ending Date: 30-Mar-2022
Sample code Nr. 560-2022-00002422
Sample described as: Oven gloves: color black, grey and white

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: MO6381
Sample Description:
Purchase Order Number:

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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-Grey outer fabric as received	X		
Determination of pH of aqueous extract ISO 3071:2020			
A-Black outer fabric as received	X		
B-Grey outer fabric as received	X		
C-White outer fabric as received	X		
D-White inner non-woven as received	X		
E-Padding as received	X		
Washing/Drying cycle ISO 6330:2012			
I-25 washing cycles at 30°C; flat drying			REFER RESULT
Tear resistance of protective gloves EN 388:2016+A1:2018, point 6.4			
H-Black+grey+white outer fabric as received	X		LEVEL 1
J-Black+grey+white outer fab. after 25 wash. cycle	X		LEVEL 1
Determination of contact heat transmission ISO 12127-1:2015			
F-Padded side as received	X		
G-Plain side as received	X		
K-Padded side after 25 washing cycles	X		
L-Plain side after 25 washing cycles	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-Grey outer fabric as received	Fabric	Grey	---
CUST 03	C-White outer fabric as received	Fabric	White	---
CUST 04	D-White inner non-woven as received	Non-woven	White	---
CUST 05	E-Padding as received	Padding	Several colours	---
CUST 06	F-Padded side as received	Fabric	Several colours	---
CUST 07	G-Plain side as received	Fabric	Several colours	---
CUST 08	H-Black+grey+white outer fabric as received	Fabric	Several colours	---
CUST 09	I-25 washing cycles at 30°C; flat drying	Fabric	Several colours	---
CUST 10	J-Black+grey+white outer fab. after 25 wash. cycle	Fabric	Several colours	---
CUST 11	K-Padded side after 25 washing cycles	Fabric	Several colours	---
CUST 12	L-Plain side after 25 washing cycles	Fabric	Several colours	---

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1-CHEMICAL TESTS	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
Determination of azo dyes					
EN ISO 14362-1:2017					
Analyses on: A-Black outer fabric as received					Analysis Ending Date: 24/03/2022
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-Diaminodiphenylmethane	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-Aminophenylether	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-toluidinium 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-Grey outer fabric as received					Analysis Ending Date: 24/03/2022
4-Aminobiphenyl	92-67-1	<5 mg/kg		5	< 20 mg/kg ✓ PASS
Benzidine	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-Diaminodiphenylmethane	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-Aminophenylether	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-toluidinium 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

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 phenylenediamine (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: 23/03/2022

Extractor solution pH value	6.0	-	
Extractor solution temperature	20.0 °C	-	
pH value (average)	6.4	(± 0.3)	Between 3.5 and 9.5 ✓ PASS

Analyses on:B-Grey outer fabric as received

Analysis Ending Date: 23/03/2022

Extractor solution pH value	6.0	-	
Extractor solution temperature	20.0 °C	-	
pH value (average)	8.3	(± 0.3)	Between 3.5 and 9.5 ✓ PASS

Analyses on:C-White outer fabric as received

Analysis Ending Date: 23/03/2022

Extractor solution pH value	6.1	-	
Extractor solution temperature	20.0 °C	-	
pH value (average)	7.1	(± 0.3)	Between 3.5 and 9.5 ✓ PASS

Analyses on:D-White inner non-woven as received

Analysis Ending Date: 23/03/2022

Extractor solution pH value	6.1	-	
Extractor solution temperature	20.0 °C	-	
pH value (average)	8.9	(± 0.3)	Between 3.5 and 9.5 ✓ PASS

Analyses on:E-Padding as received

Analysis Ending Date: 23/03/2022

Extractor solution pH value	6.1	-	
Extractor solution temperature	20.0 °C	-	

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Sample code Nr.

560-2022-00002422

Date

30/03/2022

1-CHEMICAL TESTS	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
pH value (average)		6.9	(± 0.3)	-	Between 3.5 and 9.5 ✓ PASS

Extractor solution: KCl

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2-PHYSICAL TESTS	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
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Washing/Drying cycle

ISO 6330:2012

Analyses on: I-25 washing cycles at 30°C; flat drying

Analysis Ending Date: 25/03/2022

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: H-Black+grey+white outer fabric as received

Analysis Ending Date: 25/03/2022

Specimen 1: maximum force	15 N	-
Specimen 2: maximum force	13 N	-
Specimen 3: maximum force	12 N	-
Specimen 4: maximum force	14 N	-
Classification level	1	-
Lowest value	11.6	(± 1.26) -

LEVEL 1: ≥ 10 N ✓ PASS

Analyses on: J-Black+grey+white outer fab. after 25 wash. cycle

Analysis Ending Date: 25/03/2022

Specimen 1: maximum force	12 N	-
Specimen 2: maximum force	12 N	-
Specimen 3: maximum force	14 N	-
Specimen 4: maximum force	11 N	-
Classification level	1	-
Lowest value	11.4	(± 1.24) -

LEVEL 1: ≥ 10 N ✓ PASS

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

Specimen 1 and specimen 2:
Glove length direction from cuff to finger tips.
Specimen 3 and specimen 4:
Glove cross direction, across the palm with.

Test conditions (23±2)°C, (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
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Determination of contact heat transmission

ISO 12127-1:2015

Analyses on:F-Padded side as received

Analysis Ending Date: 30/03/2022

Contact temperature (Tc)	250 °C		-	
Threshold time (Tt) - S1	19.4 s		-	
Threshold time (Tt) - S2	23.4 s		-	
Threshold time (Tt) - S3	19.4 s		-	
Threshold time (Tt) - Average	20.7 s		-	
Threshold time (Tt) - Lowest	19.4 s	(± 0.066) s	-	Tt>15 s ✓ PASS

Level 1: Tc=100°C

Level 2: Tc=250°C

Level 3: Tc=350°C

Level 4: Tc=500°C

Remark:

Slight change in color.

Analyses on:G-Plain side as received

Analysis Ending Date: 30/03/2022

Contact temperature (Tc)	250 °C		-	
Threshold time (Tt) - S1	18.1 s		-	
Threshold time (Tt) - S2	23.1 s		-	
Threshold time (Tt) - S3	20.6 s		-	
Threshold time (Tt) - Average	20.6 s		-	
Threshold time (Tt) - Lowest	18.1 s	(± 0.066) s	-	Tt>15 s ✓ PASS

Level 1: Tc=100°C

Level 2: Tc=250°C

Level 3: Tc=350°C

Level 4: Tc=500°C

Remark:

Slight change in color.

Analyses on:K-Padded side after 25 washing cycles

Analysis Ending Date: 30/03/2022

Contact temperature (Tc)	250 °C		-	
Threshold time (Tt) - S1	24.3 s		-	
Threshold time (Tt) - S2	18.6 s		-	
Threshold time (Tt) - S3	22.4 s		-	

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3-PPE TESTING	CAS No.	RESULTS	UNC.	LOQ	GUIDELINES
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Threshold time (Tt) - Average

21.8 s

-

Threshold time (Tt) - Lowest

18.6 s

(± 0.066) s

-

Tt>15 s ✓ PASS

Level 1: Tc=100°C

Level 2: Tc=250°C

Level 3: Tc=350°C

Level 4: Tc=500°C

Remark:

Slight change in color.

Analyses on:L-Plain side after 25 washing cycles

Analysis Ending Date: 30/03/2022

Contact temperature (Tc)

250 °C

-

Threshold time (Tt) - S1

23.9 s

-

Threshold time (Tt) - S2

22.6 s

-

Threshold time (Tt) - S3

21.3 s

-

Threshold time (Tt) - Average

22.6 s

-

Threshold time (Tt) - Lowest

21.3 s

(± 0.066) s

-

Tt>15 s ✓ PASS

Level 1: Tc=100°C

Level 2: Tc=250°C

Level 3: Tc=350°C

Level 4: Tc=500°C

Remark:

Slight change in color.

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Signed for and on behalf of Eurofins Textile Testing Spain:
Eurofins Textile Testing Spain, S.L.U.
C/ Carretera de Elche (Alicante)
03097/S099

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
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End Of Report**Eurofins Textile Testing Spain, S.L.U.**

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