

Prophylactic

Prophylactic type 3-4/B classic coverall

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DISPOSABLE LAMINATED PROTECTIVE COVERALL "The best protection for health"

TYPE 3-4/B



Protective coverall with one-piece hood

Hooded three-dimensional cut and elastic band around the face opening with one piece, it is more convenient to increase the face shape and protection effect.

Stitched Tape edges

Each seam is sealed with 3M tape. Internal elastic band is applied to the waist. These sewing style applications provide better protection.

Elastic cuff

Elastic cuff application provides a tighter and better protection.



3M ribbon tape

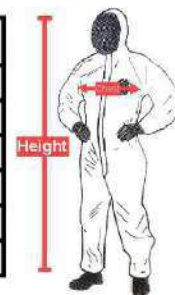
Protective Clothing Category III

EN 14605	EN 14605	EN ISO 13982-1	EN ISO 13934
TYPE 3	TYPE 4	TYPE 5	TYPE 6

EN 1072-2:2003	EN 1149-5:2003	EN 14126:2003

SIZE CHART

SIZE	CHEST	HEIGHT
S	51	180
M	54	182
L	57	182
XL	60	184
XXL	63	186
XXXL	66	188



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Technical Specification Sheet

Prophylactic type 3-4/B classic coverall

Key Features

- Disposable coverall, with hood, zip front opening covered by self adhesive flap, elastic cuff, ankles, hood and waist. Cut and sewn seams.
- Very little fiber
- Excellent barrier against dry particles and certain limited liquid chemical splashes

Material Composition

- Fabric : 18 gsm polietilen film
2 gsm hotmelt glue
35 gsm polypropylene
gsm: gram/m²

Country of Origin

- Made in the Turkey with globally sourced materials

Use For

- Intended to be worn by operating room protect both the surgical patient and the operating room personnel from transfer of microorganisms, body fluids, and particulate material



Do Not Use For

- DO NOT use in industrial settings
- DO NOT use for gases or vapors (i.e. anesthetic gases such as isoflurane or vapors.
- DO NOT use in any manner not indicated in the User instructions

Approvals and Standards

- EN ISO 13688:2013
- EN ISO 13982-1:2004 +A1:2010
- EN 13034:2005 +A1:2009
- EN 1073-2:2002
- EN 14126:2003 + AC:2004
- EN 1149-5:2018

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UNIVERSAL

Verify the validity with the QR Code



EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163-PPE-1226

BOİNC TEKSTİL SANAYİ VE TİCARET LİMİTED ŞİRKETİ
Beğselsiz Mahallesi Semiha Şakir Caddesi No: 63/67 Zeytinburnu İstanbul / TURKEY

It is certified that the manufacturer's technical file (Dated 20.06.2020) and the PPE product, detailed below, have been assessed and found to meet the applicable Essential Health and Safety Requirements in Annex II of Regulation (EU) 2016/425 based on the evaluation on technical documentation and relevant test reports.

Identification of the Personal Protective Equipment

Brand Name: PROPHYLACTIC, **Model:** BNC8756

Protective coverall manufactured from laminated polypropylene non-woven fabric with hood, inside over lock seams and seams are covered with adhesive tape, elastic cuff, ankle and waist, zipper and zipper flap. The coverall is available in 6 nominal sizes.

The following harmonised standards have been applied:

EN ISO 13688:2013, (General requirements for protective clothing)
EN 14605:2005+A1:2009, (Chemical protective clothing offering limited protective performance against liquid chemicals) Type 3, Type 4, limited wear life clothing,
EN 14126:2003/AC:2004, (Protective clothing against infective agents) for Type 3-B, 4-B

Here by the manufacturer is allowed to use notified body number (2163) and can fix CE mark, as shown below, on the Category III product models given above, with the below requirements:

- Issuing an appropriate EU Declaration of Conformity according to **Personal Protective Equipment Regulation (EU) 2016/425 Annex 9**.
- Ongoing successful performance in fulfilment of the requirements set out in Personal Protective Equipment Regulation (EU) 2016/425 and harmonised standards, ensured by assessments based on Annex 7 (Module C2) or Annex 8 (Module D) of the regulation

This certificate is initially issued on 06/08/2020 and will be valid for 5 years from the issue date.




Suat KACMAZ
UNIVERSAL CERTIFICATION
Director

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EU DECLARATION OF CONFORMITY

MANUFACTURER

BOİNC TEKSTİL SANAYİ VE TİCARET LİMİTED ŞİRKETİ
Beşelsiz Mahallesi Semiha Şakir Caddesi No: 63/67 Zeytinburnu İstanbul / TURKEY

PRODUCT DESCRIPTION

Brand Name: PROPHYLACTIC, Model: BNC8756

Protective coverall manufactured from laminated polypropylene non-woven fabric with hood, inside over lock seams and seams are covered with adhesive tape, elastic cuff, ankle and waist, zipper and zipper flap. The coverall is available in 6 nominal sizes.

Type 3 - Providing Protection to the liquid chemicals in the form of jet
Type 4 - Providing Protection to the liquid chemicals in the form of spray
Type 3-B, Type 4-B, Protective clothing against infective agents

The Manufacturer declares on his sole responsibility that the product above is, under conditions of normal use and conditions defined by the Manufacturer, safe and meets all the necessary legal conditions and requirements. The product is a personal protective equipment that is intended for single use and solely in accordance with the Manufacturer's instructions.

The Conformity is assessed with the following mechanism:

- Complies with EU 2016/425 Personal Protective Equipment Regulation establishing technical requirements for Category III products,
- Complies with Technical harmonised standards in accordance the Essential Health and Safety Requirements referenced to EU 2016/425 PPE Regulation, EN ISO 13688:2013, EN 14126:2003/AC:2004, EN 14605:2005+A1:2009
- All required tests referred in above standards are conducted,
- Complies with other relevant harmonized legislation and community standards
- For the assessment of conformity the EU Type Examination certificate is issued, after all technical evaluations for conformity to the regulation and harmonised standards conducted under supervision of:
 - UNIVERSAL CERTIFICATION, SURVEILLANCE SERVICES and TRADE Co,
Notified Body number 2163

MARKING, LABELLING

Marking, labelling and user information are prepared in accordance with EU 2016/425 Personal Protective Equipment Regulation and EN 14126. The information is supplied with the product considering EN ISO 15223-1:2016 and EN 1041:2008+A1:2013.

MEASURES TO ENSURE CONFORMITY

The Manufacturer declares that he has taken all necessary measures to ensure the conformity of products placed on the market with technical documentation and technical requirements for this type of product.



Murat FIRAT
General Manager
08/08/2020

BOİNC TEKSTİL
SAN. VE TİC. LTD. ŞTİ.
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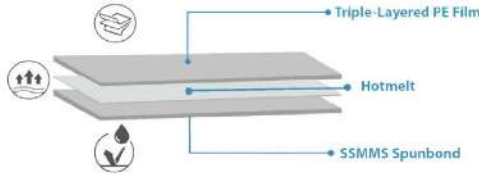
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ÜRÜN SPEKT FORMU (MATERIAL SPECIFICATION FORM)

SPEKT TİPİ (SPEKT TYPE)	LAMİNELİ ÜRÜN SPEKTİ / LAMINATED PRODUCT SPECIFICATION				
ÜRÜN KODU (PRODUCTION CODE)	-				
ÜRÜN TİPİ (MATERIAL TYPE)	55 gsm Reinforced Breathable Laminated Fabric for Surgical Gown and Protective Overall Suit				
RENK (COLOUR)	BEYAZ / WHITE				
ÜRÜN YAPISI (MATERIAL STRUCTURE)	28 gsm SSMMS Nonwoven + 25 gsm Triple-layered Breathable Medical PE Film + 2 gsm Hotmelt				
MÜŞTERİ (CUSTOMER)	-				
GÜNCELLEME TARİHİ (EFFECTIVE DATE)	02/11/2020			VERSİYON NO (VERSION NO)	2
TEST (REQUIREMENT)	TEST METODU (TEST METHOD)	BİRİM (UNITS)	HEDEF (TARGET)	MİNİMUM (MINIMUM)	MAKSİMUM (MAXIMUM)
GSM Grammage	WSP 130.1	g/m ²	55,00	53,00	57,00
MD Mukavemet MD Tensile at Peak	WSP 110.4	N/ 25mm	44	40,0	-
MD Sünme MD Elongation at peak	WSP 110.4	%	50	35	80
CD Mukavemet CD Tensile at Peak	WSP 110.4	N/ 25mm	20,0	17,0	-
CD Sünme CD Elongation at Peak	WSP 110.4	%	65	50	80
Yapışma Kuvveti (Soyulma) Lamination Strength	WSP 401.0	N/ 25mm	1,00	0,70	-
WVTR (Mocon) Breathability (Mocon)	WSP 70.5	gr/m ² /gün	3000	2000	12000
Su Sütunu Hydrostatic Head	WSP 80.6	mmSS	2000	1800	-
Gloss Level	ASTM D2457	Gloss unit	9,0	8,0	10,0
Opasite Opacity	GÜLSAN	%	80,0	75,0	85,0
Kalınlık Thickness	GÜLSAN	mm	0,210	0,180	0,240
Rulo Eni (Roll Width)	GÜLSAN	mm	Talep Edilen Requested	-3	3
Impact Penetration	AATCC 42	-	Meets the Requirements of Level 3 performance of ANSI/AAMI PB70:2012 "American National Standard for Liquid Barrier Performance and Classification of Protective Apparel and Drapes Intended for Use in Health Care Facilities"		
Hydrostatic Pressure	AATCC 127	cmSS			
Ürün Katmanları (Layers of the Material)					

KALİTE KONTROL MÜDÜRÜ
(QUALITY CONTROL MANAGER)
Erkan ÇELİK

ARGE UZMANI
(R&D SPECIALIST)
İbrahim ERKOL

FABRİKA MÜDÜRÜ
(PLANT MANAGER)
Kadir TAMER

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GÜLSAN SENTETİK DOKUMA SAN. VE TIC.A.Ş. TEST REPORT

SCOPE OF WORK

Performance Testing of Surgical Gowns to ANSI/AAMI PB70:2012 American National Standard for Liquid Barrier Performance and Classification of Protective Apparel and Drapes Intended for Use in Health Care Facilities

REPORT NUMBER

104366460CRT-003

ISSUE DATE

June 29, 2020

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5

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Report No.: 104366460CRT-003
Date Issued: June 29, 2020

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CLIENT

GÜLSAN SENTETİK DOKUMA SAN. VE TIC.A.Ş.
Deniz Topçuoğlu Organize Sanayi Bölgesi 2. Cadde No:18
27620 Gaziantep
Turkey

TEST STANDARD

ANSI/AAMI PB70:2012 American National Standard on Liquid Barrier Performance and Classification of Protective Apparel and Drapes Intended for Use in Health Care Facilities

AUTHORIZATION

Quote No.: Qu-01085425-2

SAMPLES IDENTIFIED BY THE CLIENT AS

Product type: Gown Material

ID Numbers: 55 gsm Breathable Laminate for Protective Clothing/Coverall Suit – S064

SAMPLE INFORMATION

Dates Samples Received: June 22, 2020

Condition of Samples: Production Run

Dates of Testing: June 24, 2020

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SECTION 1

CONCLUSION

This test report represents the testing covered by proposal number Qu-01085425-2.

The observations and test results in this report are relevant only to the sample tested. Intertek makes no representations or warranties, express or implied, regarding units that were not tested including, but not limited to, units that may be part of the same lot.

If there are any questions regarding the results contained in this report, or any other services offered by Intertek, please do not hesitate to contact the undersigned.

Please note this Test Report does not represent authorization for the use of any Intertek certification marks.

Project Owner: Pam Kavalesky

Title: Staff Engineer

Signature: 

Date: June 29, 2020

Project Reviewer: Jason Allen

Title: Technical Advisor

Signature: 

Date: June 29, 2020

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SECTION 2

ANSI/AAMI PB70:2012 TEST DATA

IMPACT PENETRATION TESTING IN ACCORDANCE WITH AATCC 42

Specimens and blotting paper conditioned in accordance with Section 6.1 of AATCC 42
Water temperature maintained in accordance with Section 7.2 of AATCC 42

55 gsm Breathable Laminate for Protective Clothing / Coverall Suit– S064				
Specimen	Initial Mass (g)	Final Mass (g)	Mass Increase (g)	Level Result
1	4.92	4.92	0.00	2 or 3
2	4.91	4.92	0.01	2 or 3
3	4.89	4.90	0.01	2 or 3

If sampling has been performed in accordance with Section 5.2.1.a, assuming a sample size of 32, the above overall Classification is determined to be: Unable to determine based on limited specimen numbers. See Section 4 on page 5.

SECTION 3

ANSI/AAMI PB70:2012 TEST DATA

HYDROSTATIC PRESSURE TESTING IN ACCORDANCE WITH AATCC 127

Specimens conditioned in accordance with Section 6.3 of AATCC 127
Water temperature maintained in accordance with Section 7.1 of AATCC 127
Test conducted in accordance with Section 7.4.1 (Option 1, Hydrostatic Pressure Tester) of AATCC 127

40 gsm SMMS Nonwoven (Enriched) for Isolation/Surgical Gown – S063		
Specimen	Pressure (cm)	Level Result
1	>50	3
2	>50	3
3	>50	3

If sampling has been performed in accordance with Section 5.2.1.a, assuming a sample size of 32, the above overall Classification is determined to be: Unable to determine based on limited specimen numbers. See Section 4 on page 5.

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SECTION 4

ANSI/AAMI PB70:2012 CLASSIFICATION of BARRIER PERFORMANCE of SURGICAL GOWNS, ISOLATION GOWNS, OTHER PROTECTIVE APPAREL, SURGICAL DRAPES, and DRAPE ACCESSORIES

Level	Test	Result	AQL requirement (Alpha = .05)	RQL requirement (Beta = 0.10)
1	AATCC 42	≤4.5 g	4%	20%
2	AATCC 42 AATCC 127	≤1.0 g ≥20 cm	4%	20%
3	AATCC 42 AATCC 127	≤1.0 g ≥50 cm	4%	20%
4	ASTM F1671 (surgical gowns, isolation gowns and other protective apparel)	Pass	4%	20%
	ASTM F1670 (surgical drapes and drape accessories)	Pass	4%	20%

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Çerkeşli OSB Mah. İMES OSB 18. Cad. A4/2 No.41/2
Dilovası – Kocaeli / TÜRKİYE

GTL-TLM-0023-C/20

05.08.2020

Test Report

Test Owner name / address	UNIVERSAL CERTIFICATION and SURVEILLANCE SERVICES TRADE CO. Necip Fazıl Bulvarı Keyap Sitesi E2 Blok No:44/84 Yukarı Dudullu Umraniye, Istanbul / TURKEY
Manufacturer name/address	BOİNC TEKSTİL SAN. VE TİC. LTD. ŞTİ.
Name and identity of the test item	Protective Clothes
The date of receipt of the test item	7.07.2020
Brand name – model	-
Date of the test	27.07.2020
Sample Number	GTTS-0023-4, GTTS-0023-5, GTTS-0023-6
Number of pages of the report	8

GCNTR ULUS.BELG.GÖZ.EĞT.VE DIŞ.TİC.LTD.ŞTİ accredited by TÜRKAK under registration number AB-1272-T for EN ISO17025 as test laboratory"
The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which
are part of this report.

Date/Seal
05.08.2020

Head of Testing Laboratory
Sebahattin CAY



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GTL-TLM-0023-C/20
05.08.2020

Test Report

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Test Report

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1. Documentation

1.1 Description of the EUT

All samples tested

Test samples subject to the test

Product Name	Samples No	Sample Size	Type	Application Tests
Protective Clothing	GTTS-0023-4	Not Writing	Type 4	Pre-exercise Test- Spray Test
Protective Clothing	GTTS-0023-5	Not Writing	Type 4	Pre-exercise Test- Spray Test
Protective Clothing	GTTS-0023-6	Not Writing	Type 4	Pre-exercise Test-Spray Test

1.2 Environmental Condition, Symbol Definitions

- Test case does not apply to the test object: N/A
- Test object meets the requirement.....: P (Pass)
- Test object does not meet the requirement.... : F (Fail)
- Environmental Conditions: °C , % RH, m/s

1.3 Test Standards

EN 14605+A1:2009 Protective clothing against liquid chemicals - Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4])

EN ISO 17491-4 protective clothing – test methods for clothing providing protection against chemical – part 4: Determination of resistance to penetration by a spray of liquid (spray test)



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Test Report

2. Test Result

Clause	Requirement	Result – Remark	Verdict
4.3.2	Pre-Conditioning Prior to testing, the chemical protective clothing shall be cleaned, if the manufacturer's instructions indicate that cleaning is allowed. Manufacturer's instructions with regard to number of cleaning cycles, cleaning procedures and possible reapplication of treatments shall be observed. If no maximum number of cleaning cycles is indicated, the clothing shall undergo five cleaning cycles.	Protective clothing are, it's was come in the form of plastic packing by the company. For this reason, no additional cleaning was performed with the suggestion of the company.	PASS
4.3.3	Conditioning Protective clothing against all chemicals must be conditioned for at least 24 hours under the same conditions used for the experiment.	All products are conditioned at 24 C° 50% Rh values for 24 hours.	PASS
4.3.4	Resistance to the penetration of liquits		
4.3.4.1	General and Pre-test Pre-Test	-There are no preventing factors. -No tearing or deformation was observed in the samples Test details are given in table 1.	PASS
4.3.4.2	Resistance to the penetration of liquits (SprayTest)	Type 4	
EN ISO 17491-4 Article 9	Remove respirator and gloves first before opening the test garment. Remove the chemical protective clothing carefully in order to avoid contamination of the absorbent overall and examine the internal surface of the test garment for signs of penetration, paying special attention to openings, seams, closures and zippers. Mark them.	Three test clothes were dressed tested together with the white absorbent underwear. Regions passing liquid are given in figure 1.	PASS
Clouse 4.3.3.2	Any underwear, of each garment suit. The total stain area on it should not be more than three times the calibrated total stain area.	Calibration stain area: measured as 4.56 cm². Sum of stains on the inner white garment given in table 2	PASS

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05.08.2020

Test Report

Table 1

Clause	Requirement	Pre-Experiment		Liquid Experiment 1		Liquid Experiment 2		Liquid Experiment 3	
		PASS	FAIL	PASS	FAIL	PASS	FAIL	PASS	FAIL
	Starting from a standing position in each case, carry out the following movement sequence:								
Movement 1	Kneel on both knees, lean forward and place both hands on the floor (45 ± 5) cm in front of the knees; crawl forward and backwards on hands and knees for a distance of three metres in each direction;	✓		✓		✓		✓	
Movement 2	Climb a vertical ladder at least four steps, rungs to be as encountered on a typical ladder;	✓		✓		✓		✓	
Movement 3	Position hands at chest level, palms out; reach directly overhead, interlock thumbs, extend arms fully upwards;	✓		✓		✓		✓	
Movement 4	Kneel on right knee, place left foot on floor with left knee bent (90 ± 10)°; touch thumb of right hand to toe of left shoe. Repeat movement with alternate posture, i.e. by kneeling on left knee and placing the right foot on the floor with knee bent at 90°.	✓		✓		✓		✓	
Movement 5	Extend arms fully in front of body, lock thumbs together, twist upper body (90 ± 10)° left and right.	✓		✓		✓		✓	
Movement 6	Stand with feet shoulder width apart, arms at side; raise arms until they are parallel to the floor in front of the body; squat down.	✓		✓		✓		✓	
Movement 7	Kneel as in movement 4, left arm hanging loosely at side; raise arm fully overhead. Repeat movement with alternate posture by alternating arms.	✓		✓		✓		✓	



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Pre-experiment 1	I.Ç Height: 165 cm Weight: 75 kg
Liquid Experiment 1	i.Ç
Liquid Experiment 2	i.Ç
Liquid Experiment 3	i.Ç

Table 2

	SPREY EXPERIENCE					SUM
	UPPER BODY			LOWER BODDY		
	Chest (cm ²)	Shoulder (cm ²)	Back (cm ²)	Front (cm ²)	Back (cm ²)	
GTTS-0023						
Sample 1	12,7	-	-	0,5	-	13,2
Sample 2	11	-	-	1	-	12
Sample 3	12,5	-	-	-	-	12,5



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GTL-TLM-0023-C/20

05.08.2020

Test Report

3. Attachments

3.1 Photos of EUT



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Report No: GTL-TLM-0023-C/20

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GCNTR ULUSLARARASI BELGELENDİRME, GÖZETİM,
EĞİTİM VE DIŞ TİC. LTD. ŞTİ.
Çerkeşli OSB Mah. İMES OSB 18. Cad. A4/2 No.41/2
Dilovaşı – Kocaeli / TÜRKİYE

GTL-TLM-0023-C/20

05.08.2020

Test Report

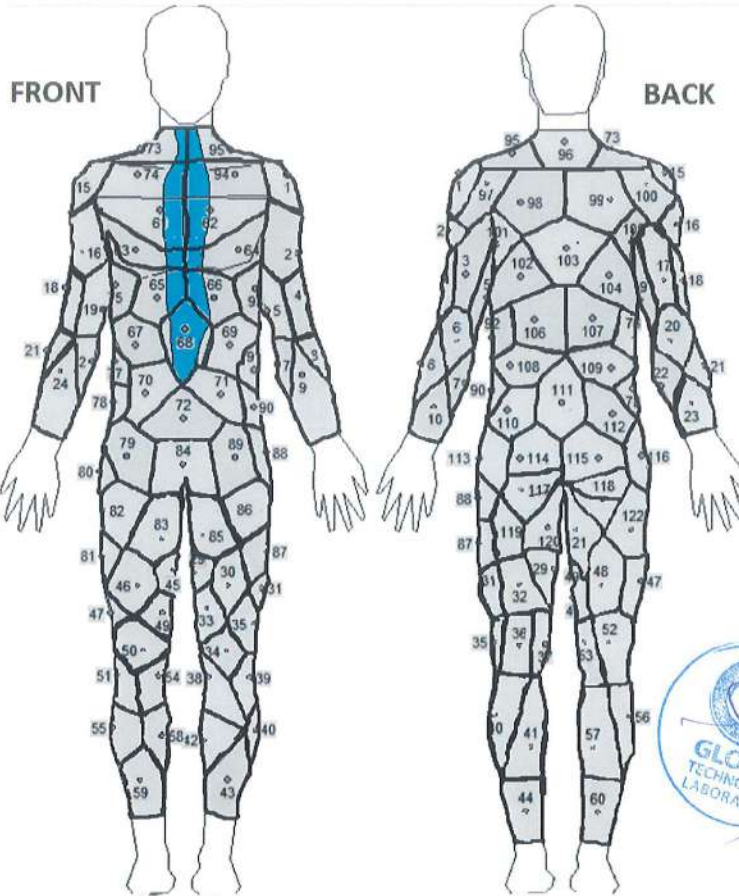


Figure 1 Regions passing liquid

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Report No: GTL-TLM-0023-C/20

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LABORATUVAR VE GÖZETİM HİZMETLERİ A.Ş.

**EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.**
Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar
İstanbul/ TÜRKİYE

TEST REPORT
DENEY RAPORU

20022677-ing

07-20

Gen.f136-2/03

Customer name: UNIVERSAL SERTİFİKASYON VE GÖZETİM HİZMETLERİ TİCARET LTD.ŞTİ.
Address: 15 Temmuz Mah. Gülbahar Cad. No:96 Bağcılar/İSTANBUL
Buyer name: BOINC TEKSTİL SANAYİ VE TİCARET LİMİTED ŞİRKETİ
Contact Person: SUAT KAÇMAZ
Order No:
Article No:
Name and identity of test item: White protective overalls
The date of receipt of test item: 06.07.2020
Re-submitted/re-confirmation date: -
Date of test: 06.07.2020-17.07.2020
Remarks: -
Sampling: The results given in this report belong to the received sample by vendor.
End-Use: -
Care Label: Not Specified
Number of pages of the report: 9



Date
17.07.2020

Customer Representative
Sermin ZULMEVEN

Head of Testing Laboratory
Sevim A. RAZAK

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REQUIRED TESTS	RESULT	COMMENTS
PHYSICAL PROPERTIES TESTS		
Abrasion	-	Class 6
Water Permeability	-	Class 6
Tear Strength	-	Class 1
Tensile Strength	-	Class 1
Repellency to Liquids	-	Class 1
Resistance To Penetration By Liquids	-	Class 3
Seam Strength	-	Class 2
Surface Resistivity ⁽¹⁾	F	
Puncture Resistance	-	Class 1
Determination of resistance to damage by flexing	-	Class 5
MICROBIOLOGICAL TESTS		
Wet-Bacterial Penetration	-	Class 5
P: Pass F: Fail R: Refer to retailer technologist		
Tests were classified according to BS EN 14325:2018		
⁽¹⁾ Requirement was given by the vendor.		

Gen.fl.36-2/03

REMARK: Original samples are kept for 3 months and all technical records are kept for 5 years unless otherwise specified. If requested, measurement uncertainty will be reported. But unless otherwise specified, measurement uncertainty is not considered while stating compliance with specification or limit values. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %. Tests marked (*) in this report are not included in the accreditation schedule.



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TEST RESULTS

Test Method : BS EN 14325:2018 (PROTECTIVE CLOTHING AGAINST CHEMICALS:TEST METHODS AND PERFORMANCE CLASSIFICATION OF CHEMICAL PROTECTIVE CLOTHING MATERIALS,SEAMS,JOINS AND ASSEMBLAGES (*)

ABRASION RESISTANCE AND LEAK TIGHTNESS Clause 4.4.Abrasion Resistance (EN ISO 12947-2) ANNEX-B

Martindale Test Machine (47.5±2 rpm) with Lissajous Figure,
9 kPa pressure,
Performed in the conditioned room (20±2°C-65%±4).

RESULT

No abrasion @ 2.000 revs

CLASS

5
Classified according to the
Table-1

Determination of the highest number of abrasion rubs which does not cause damage to the material and which shall be used for the performance classification.
The abrasion resistance of sample shall be Classified according to the levels of performance given in Table-1

Table-1 Classification of Abrasion Resistance

Class	Number of rubs
6	>2000
5	>1000
4	>400
3	>100
2	>40
1	>10

Clause 4.4.2.3 Hydrostatic head end –point determination (EN 20811)

If the average hydrostatic head exceeds 200mm,then the hydrostatic head method is applicable and the leak tightness shall be determined.

WATER PERMEABILITY ; EN ISO 811:2018

Hydrostatic Head Tester, Textest marka Fx 3000 model
Temperature of water10.°C. Pressure increase ratio 10 mbar/dk.
Performed in the conditioned room (20±2°C-65%±4)

Sample 1
Sample 2
Sample 3
Sample 4
Sample 5
Average

RESULT

1428 mm SS
523 mm SS
665 mm SS
938 mm SS
468 mm SS
804.6 mm SS

REQUIREMENT

>200 mmSS

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TEST RESULT

TRAPEZOIDAL TEAR STRENGTH

Clause: 4.7. Trapezoidal Tear Resistance TS EN ISO 9073-4:2002(*)

Instron 5969 Speed:100±10 mm/min, Gauge length:5cm

The average results are given for width and length direction of five samples.

2 pre-tension applied

Performed in the conditioned room. (20±2°C - 65%±4)

Width **RESULT**
19.9 N

Length 48.0 N

CLASS
2

Classified according to
the Table-4

Table-4 Classification of Trapezoidal Tear Resistance

Class	Tear Strength
6	>150 N
5	>100 N
4	>60 N
3	>40 N
2	>20 N
1	>10 N

Gen.1136-2/03

TENSILE STRENGTH

Clause 4.9. Tensile Strength EN ISO 13934-1:2013

Instron 5969 (Load: 50 kN), Strip Method.

Speed: 100 mm/min±10, Gauge length 200 mm.

Pre-load was not applied. Without wetting samples.

The average results are given for width and length direction of five samples.

Performed in the conditioned room (20±2°C-65%±4).

Width **RESULT**
45.2 N

Length 88.0 N

CLASS
1

Classified according to
the Table-5

Table-4 Classification of Tensile Strength

Class	Tensile Strength
6	>1000 N
5	>500 N
4	>250 N
3	>100 N
2	>60 N
1	>30N

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TEST RESULT REPELLENCY TO LIQUIDS

Clause 4.12 Repellency to Liquids (EN ISO 6530:2005)

When tested in accordance with EN ISO 6530 for repellency to the liquid chemicals given in Table -9, the material shall be classified according to the levels performance in given Table-10 for each chemical tested.

Use those liquids against which protection is required, water is also convenient and safe liquid for general screening purposes. Performed in the conditioned room (20±2°C-65%±4).

For each test liquid ,cut six test specimens of (360±2)mm by (235±5)mm from the sample.
Chemicals shall be of analytical purity grade.
Discharged the test liquid (10cm 3) within (10±1)s

Table-9 List of reference chemicals for absorption ,penetration and repellency testing

Chemical	Concentration weight %	Temperature of chemical (±2°C)
Sulfuric Acid (H2SO4)	30	20
Sodium Hydroxide (NaOH)	10	20
o-Xylene	Undiluted	20

Table 10- Classification of Repellency to liquids

Class	Repellency Index (I _R)
3	> 90 %
2	>80 %
1	>70 %

Clause 4.13 Resistance to penetration by liquids (EN ISO 6530)

Table 11- Classification of Resistance to penetration by liquids

Class	Penetration Index (I _P)
3	< 1 %
2	< 5 %
1	<10 %

RESULT

Chemical	Concentration weight %	I _P	Class	I _R	Class
Sulfuric Acid (H2SO4)	30	10.7%	3	96.2 %	2
Sodium Hydroxide (NaOH)	10	0%	3	94.4 %	3
o-Xylene	Undiluted	0%	3	86.7 %	2

I_P: index of penetration
I_R: index of repellency
I_A: index of absorption

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TEST RESULT

SEAM STRENGTH-GRAB METHOD

Clause 5.5 Seam Strength ISO 13935-2: 2014

Jaw Speed: 50±5 mm/min, Gauge Length: 100 mm±1 mm.

Seam Type : 301, 100 % Polyester core-spun sewing-thread was used.

5kN. Load was applied.

The average results are given for width and length direction of five samples.

Performed in the conditioned room(20±2°C-65%±4)

	Seam Strength (N)	Fail	CLASS
Crotch	1347 N	FR	2 Classified according to the Table-13
Inner side seam	74.4 N	FTJ	
Front center seam	73.1 N	FTJ	
Back center seam	66.5 N	FTJ	
Waist	106.5 N	FTJ	
Sleeve	91.2 N	FTJ	
Collar	58.8 N	FTJ	
Hat	97.7 N	FTJ	
Zipper handle	148.8 N	-	

Gen.F.136-2/03

FR : Fabric Rupture

FTJ : Fabric Tear At The Jaw

Table 13- Classification of Seam Strength

CLASS	Seam strength
6	>500 N
5	>300 N
4	>125 N
3	>75 N
2	>50 N
1	>30 N

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TEST RESULT

SURFACE RESISTIVITY; EN 1149-1:2006(*)

Ohm meter (METRISO 3000) and ring probe were used.

Original sample was tested as the client's request

Pre-Treatment -

Atmosphere for conditioning and testing (23± 1)°C, (25± 5)%RH

Conditioning time ≥ 24 hours

Applied voltage -

Number of samples tested 5

Measurement	RESULT	
	Surface Resistivity	REQUIREMENT
1.	10 x 10 ¹² Ω	
2.	30 x 10 ¹² Ω	
3.	22 x 10 ¹² Ω	
4.	15 x 10 ¹² Ω	
5.	17 x 10 ¹² Ω	<2.5 x10 ⁹ Ω

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TEST RESULT

PUNCTURE RESISTANCE

Clause 4.10.Puncture Resistance EN 863 (*)

RESULT

7.0 N

CLASS

1
Classified according to
the Table-6

Table-4 Classification of Puncture Resistance
(Tablo-6)

Class	Puncture Resistance
6	>250 N
5	>150 N
4	>100 N
3	>50 N
2	>10 N
1	>5N

Gen.F136-2/03

DETERMINATION OF RESISTANCE TO DAMAGE BY FLEXING METHOD C (CRUMPLE/FLEX) (*)

Test Metot : ISO 7854 :1995 Rubber- or plastics-coated fabrics -Determination of resistance to damage by flexing Method C (Crumple /Flex Test) (*)Clause 4.5

Two test pieces were prepared each 220 mm long x 190 mm width

After cycle has finished examine the damage of samples and classified

RESULT

>40 .000 cycles

No damage observed

CLASS

Class 5
Classified according to
the Table-2

Table 2-Classification of flex cracking resistance

Class	Number of cycles
6	> 100 000
5	>40 000
4	> 15 000
3	> 5 000
2	> 2 500
1	> 1000

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07-20

TEST RESULTS

Test Method: BS EN 22610: 2006 (Surgical drapes, garments and fresh air clothes used as medical devices for patients, hospital staff and equipment - Test method for determination of resistance to wet bacterial permeability) (*)
A test sample is placed on the agar plate on a rotating disc. Bacteria carrier material and coating film are placed on the test sample and all parts are fixed on the disk. A finger is placed on the test sample to apply a certain force ($3N \pm 0.02$). The finger moves on the test sample over the entire surface of the agar within 15 minutes. 5 studies are carried out for 15 minutes. 6. The study is repeated by inverting the sample.

Sample amount:	5 pieces 25x25cm2
Carrier Material:	30 µm thin, 25x25cm2 Polyurethane Film
Coating Material:	25x25cm2 HDPE Film
Microorganism:	Staphylococcus aureus ATCC 29213
Bacterial Concentration (kob / ml):	1-4x104 kob / ml
Incubation Conditions:	(36 ± 1) ° C 48 hours

RESULTS

Breakthrough time, t min	Number of Populating Bacteria (cfu)		Penetration Rate	
15	X ₁	0	R _{CUM1}	0
30	X ₂	0	R _{CUM2}	0
45	X ₃	0	R _{CUM3}	0
60	X ₄	0	R _{CUM4}	0
75	X ₅	12	R _{CUM5}	0,03
	Z	354		
	T	366		

X1 X5: Number of colonies growing in 5 parallel petri in the same sample

Z: number of colonies growing in the sixth petri dish

T: X1 + X2 + X3 + X4 + X5 + Z

RCUM1 = X1/T

RCUM2 = (X2 + X1)/T

RCUM3 = (X3 + X2 + X1)/T

RCUM4 = (X4 + X3 + X2 + X1)/T

RCUM5 = (X5 + X4 + X3 + X2 + X1)/T

EVALUATION

Result	Class (*)
60 < t ≤ 75	5

(*) BS EN 14126:2003 Protective Clothing — Performance requirements and tests methods for protective clothing against infective agents

Class	Breakthrough time, t min
6	t > 75
5	60 < t ≤ 75
4	45 < t ≤ 60
3	30 < t ≤ 45
2	15 < t ≤ 30
1	≤ 15 min

Gen.f136-2/03

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ANALYSIS REPORT

Report No. : 2014860E Report Date : 22/07/2020
Applicant : UNIVERSAL SERTİFİKASYON VE GÖZETİM HİZMETLERİ TİCARET LTD.ŞTİ.
Address : Necip Fazıl Bulvarı Keyap Sitesi E2 Blok No:44/84 Yukarı Dudullu
Ümraniye/İstanbul/Turkey
Sample : Overallis Sample Code: 3150
Sample Package : Poly packing
Sample Amount : 5 pieces
Sampling Point : -
Sampling Date : 02/07/2020
Sample Lot No. : -
Sample Carrying Conditions / Preservation Technique : -
Production Date : -
Packing Date : -
Expire Date : -
Producer Company : Boinc Tekstil Sanayi ve Ticaret Limited Şirketi
Sample Receiving Time : 05/07/2020 13:00:00
Analysis Beginning Time : 06/07/2020 10:45:00
Analysis Completion Time : 22/07/2020



Following analysis results were obtained from the specimen which was delivered to Çevre Laboratory by hand to hand

Parameters	Unit	Finding	Method	Information
Sentetik Kanın Nüfuzuna Karşı Direnç				
The Average Thickness of the Material Tested	mm	0,18	ISO 16603	148
The Average Mass of the Material Tested	g	0,3436	ISO 16603	148
Test Spicemen 1: 0 kPa	-	Succeed	ISO 16603	149
Test Spicemen 1: 1,75 kPa	-	Succeed	ISO 16603	149
Test Spicemen 1: 3,5 kPa	-	Succeed	ISO 16603	149
Test Spicemen 1: 7 kPa	-	Succeed	ISO 16603	149
Test Spicemen 1: 14 kPa	-	Succeed	ISO 16603	149
Test Spicemen 1: 20 kPa	-	Succeed	ISO 16603	149
Test Spicemen 2: 0 kPa	-	Succeed	ISO 16603	149
Test Spicemen 2: 1,75 kPa	-	Succeed	ISO 16603	149


Merve BİRAH
Assistant Laboratory Responsible of
Microbiology Laboratory


Approved by
22/07/2020
Ömer Yasin BALIK
Laboratory Manager

Prophylactic

Prophylactic type 3-4/B classic coverall

www.prophylactic.com.tr



ANALYSIS REPORT

Report No. : 2014860E

Report Date : 22/07/2020

Following analysis results were obtained from the specimen which was delivered to Çevre Laboratory by hand to hand

Parameters	Unit	Finding	Method	Information
Test Spicemen 2: 3,5 kPa	-	Succeed	ISO 16603	149
Test Spicemen 2: 7 kPa	-	Succeed	ISO 16603	149
Test Spicemen 2: 14 kPa	-	Succeed	ISO 16603	149
Test Spicemen 2: 20 kPa	-	Succeed	ISO 16603	149
Test Spicemen 3: 0 kPa	-	Succeed	ISO 16603	149
Test Spicemen 3: 1,75 kPa	-	Succeed	ISO 16603	149
Test Spicemen 3: 3,5 kPa	-	Succeed	ISO 16603	149
Test Spicemen 3: 7 kPa	-	Succeed	ISO 16603	149
Test Spicemen 3: 14 kPa	-	Succeed	ISO 16603	149
Test Spicemen 3: 20 kPa	-	Succeed	ISO 16603	149
The Procedure Selected	-	D	ISO 16603	
Test Spicemen Thickness 1	mm	0,18	ISO 16603	
Test Specimen Mass 1	g	0,313	ISO 16603	
Test Spicemen Thickness 2	mm	0,18	ISO 16603	
Test Specimen Mass 2	g	0,3386	ISO 16603	
Test Spicemen Thickness 3	mm	0,18	ISO 16603	
Test Specimen Mass 3	g	0,3793	ISO 16603	
Microbial Penetration - Dry Bacterium				
Microbial Penetration - Dry Bacterium	log cfu	1,6	ISO 22612	150, 151
Test Spicemen 1 - Colony Count	cfu	45	-	
Test Spicemen 2 - Colony Count	cfu	49	-	
Test Spicemen 3 - Colony Count	cfu	37	-	
Test Spicemen 4 - Colony Count	cfu	30	-	
Test Spicemen 5 - Colony Count	cfu	42	-	
Test Spicemen 6 - Colony Count	cfu	51	-	
Test Spicemen 7 - Colony Count	cfu	34	-	
Test Spicemen 8 - Colony Count	cfu	28	-	
Test Spicemen 9 - Colony Count	cfu	37	-	
Test Spicemen 10 - Colony Count	cfu	45	-	

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Approved by
22/07/2020
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ANALYSIS REPORT

Report No. : 2014860E

Report Date : 22/07/2020

Following analysis results were obtained from the specimen which was delivered to Çevre Laboratory by hand to hand

Parameters	Unit	Finding	Method	Information
Ortalama Koloni Sayısı	cfu	40	-	
Negative Control Count 1	cfu	<1	-	
Negative Control Count 2	cfu	<1	-	
Talc Concentration	cfu/g	3,9*10 ⁸	ISO 22612	
Microbial Penetration - Wet Bacterium				
Test Spicemen 1 - Colony Count	cfu	1619	ISO 22610	154
Test Spicemen 2 - Colony Count	cfu	1786	ISO 22610	154
Test Spicemen 3 - Colony Count	cfu	1581	ISO 22610	154
Test Spicemen 4 - Colony Count	cfu	1513	ISO 22610	154
Test Spicemen 5 - Colony Count	cfu	1847	ISO 22610	154
Test Spicemen 1 - Barrier Index	-	3,32	ISO 22610	154
Test Spicemen 2 - Barrier Index	-	3,34	ISO 22610	154
Test Spicemen 3 - Barrier Index	-	3,15	ISO 22610	154
Test Spicemen 4 - Barrier Index	-	3,23	ISO 22610	154
Test Spicemen 5 - Barrier Index	-	3,25	ISO 22610	154
Test Spicemen 1 - Percentage of Penetration	%	31,75	ISO 22610	154
Test Spicemen 2 - Percentage of Penetration	%	35,02	ISO 22610	154
Test Spicemen 3 - Percentage of Penetration	%	31	ISO 22610	154
Test Spicemen 4 - Percentage of Penetration	%	29,67	ISO 22610	154
Test Spicemen 5 - Percentage of Penetration	%	36,22	ISO 22610	154
Average Penetration Percentage	%	32,73	ISO 22610	
Bacillus atrophaeus Concentration	spores/mL	5,1*10 ³	ISO 22610	
Pathogen Penetration				
The Procedure Selected	-	D	ISO 16604	155
Hydrostatic Pressure	kPa	20	ISO 16604	156
Test Spicemen 1	-	Succeed	ISO 16604	157
Test Spicemen 2	-	Succeed	ISO 16604	157
Test Spicemen 3	-	Succeed	ISO 16604	157
Pre-test Bacteriophage Titer	pfu/mL	4,8*10 ⁸	ISO 16604	


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Approved by
22/07/2020
Ömer Yasin BALIK
Laboratory Manager

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ANALYSIS REPORT

Report No. : 2014860E

Report Date : 22/07/2020

Following analysis results were obtained from the specimen which was delivered to Çevre Laboratory by hand to hand

Parameters	Unit	Finding	Method	Information
Post-test Bacteriophage Titer	pfu/mL	4,5*10 ⁸	ISO 16604	
Negative Control	-	Succeed	ISO 16604	
Positive Control	-	Fail	ISO 16604	

Source of Limit Ranges : El ve Kol Koruması ve Can Yeleği Dahil Koruyucu Kıyafetler (EN 14126)

A: Acceptable NA: Not Acceptable

MU: Measurement Uncertainty

Method ISO : International Organization for Standardization

Information 148 : Test sample-1 is sampled from the right arm, test sample-2 left leg, test sample-3 body part. The thickness and mass given are the average of the results for these three samples.

149 : The retaining screen has 50% open area

150 : Test Conditions : 65±5 relative humidity and 20±2°C

ATCC 9372 Bacillus subtilis spores were used in the concentration of ethyl alcohol.

Talc concentration 10⁸8 cfu/g

200 mm x 200 mm 12 test pieces used

The vibrator was operated in an air flow with a vibration frequency of 20800 per minute.

151 : EN 14126 standard provides Class 2 values according to Table 4.

154 : Test Conditions : 65±5 relative humidity and 20±2°C minimum 24 hours

The distance to the distance agar-to-brim is 3.0 mm.

25 cm x 25 cm 5 test pieces were used.

The tests were carried out from the outside of the sample.

ATCC 9372 Bacillus atrophaeus spore suspension was used.

Incubator Control <4 cfu

Test Environment Control <25 cfu

155 : Test Conditions: Minimum 24 hours at 20±2° C and 65±5 % relative humidity

Sample size and number: 3 test samples in size 75x75mm

Name of test microorganism: ATCC 13708-B1 Escherichia coli bacteriophage Phi X174

PFU: Plate forming unit

156 : The application pressure was chosen over the values obtained as a result of the procedure applied according to the ISO 16603 method.

157 : Test sample-1 right arm, test sample-2 left leg, test sample-3 were sampled from the body part.

Note 1. When request, the conformit assessment is carried out in accordance with the legal regulations and standards or the decision rules which are agreed with the customer.
2. Descriptive information about the samples / sampling in the analysis report has been declared by the customer. Our laboratory is not responsible for the legal losses.
3. Analysis report covers samples/sampling that comes to the laboratory.
4. This report and results don't not be copied and printed partially or completely without permission of Çevre Industrial Analysis Laboratory for any commercial and advertising purposes.
5. This report shall not be used official purposes related to Environmental Regulations.
6. The test report without sign is not valid.

End of Report

Merve BİRAH
Assistant Laboratory Responsible of
Microbiology Laboratory

Approved by
22/07/2020
Ömer Yasin BALIK
Laboratory Manager

Prophylactic

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Microbial Penetration - Wet Bacteria Analysis Report Attachment (ISO 22610)										
Sample No:	2014860E									
Analysis Results										
	<i>Bacillus atrophaeus</i> Spore Concentration (spore/mL)	X1 (cfu)	X2 (cfu)	X3 (cfu)	X4 (cfu)	X5 (cfu)	Z (cfu)	Total Colony Count (cfu)	% Pn	
		0-15 minute	15-30 minute	30-45 minute	45-60 minute	60-75 minute				
Test Specimen - 1	5100	326	287	315	255	436	125	1619	31,75	
Test Specimen - 2		290	327	432	332	405	143	1786	35,02	
Test Specimen - 3		205	412	387	352	225	91	1581	31,00	
Test Specimen - 4		341	242	274	354	302	112	1513	29,67	
Test Specimen - 5		371	280	486	297	413	134	1847	36,22	
X1: 1.plates colony count										
X2: 2.plates colony count										
X3: 3.plates colony count										
X4: 4.plates colony count										
X5: 5.plates colony count										
Z: Number of plates in the reverse test sample										
Pn: Percentage of penetration										
Total Colony Count = X1+X2+X3+X4+X5										
	T (cfu)	CUM1	CUM2	CUM3	CUM4	CUM5	Barrier Index (EPP)	Donor (cfu)	Incubator Control (cfu)	Ambient Test Control (cfu)
Test Specimen - 1	1744	0,19	0,35	0,53	0,68	0,93	3,32	25	<4	<25
Test Specimen - 2	1929	0,15	0,32	0,54	0,72	0,93	3,34	34	<4	<25
Test Specimen - 3	1672	0,12	0,37	0,60	0,81	0,95	3,15	41	<4	<25
Test Specimen - 4	1625	0,21	0,36	0,53	0,75	0,93	3,23	33	<4	<25
Test Specimen - 5	1981	0,19	0,33	0,57	0,72	0,93	3,25	26	<4	<25
T = Z + X1 + X2 + X3 + X4 + X5										
CUM1 = X1/T										
CUM2 = (X2 + X1)/T										
CUM3 = (X3 + X2 + X1)/T										
CUM4 = (X4 + X3 + X2 + X1)/T										
CUM5 = (X5 + X4 + X3 + X2 + X1)/T										

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