



CEVRE
ENDÜSTRİYEL ANALİZ
LABORATUVARI



Test
TS EN ISO/IEC 17025
AB-0363-T

AB-0363-T

2025393E-R1

10-20

ANALYSIS REPORT

Report No. : 2025393E-R1

Report Date : 21/10/2020

Applicant

: UNIVERSAL SERT F KASYON VE GÖZET M H Z. T C.LTD. T .

Address

: Necip Fazıl Bulvarı Keyap Sitesi E2 Blok No:44/84 Yukarı Dudullu
Ümraniye/ stanbul/Turkey

Sample

: Medical Protective Coverall (L) Model Code: 9058 - Colour: Beyaz

Sample Package

: Poly packing

Sample Amount

: 5 adet

Sampling Point

: -

Sampling Date

: 07/10/2020

Sample Lot No.

: -

Production Date

: 18/08/2020

Packing Date

: -

Expire Date

: -

Producer Company

: Narkonteks Tekstil hr. th. San. Ve Tic. A. .

Product No

: -

Supplier Number

: -

Sample Receiving Time

: 07/10/2020 17:30:00

Analysis Beginning Time

: 07/10/2020 17:45:00

Analysis Completion Time

: 21/10/2020



Parameters	Unit	Finding	Sınıf 1	Sınıf 2	Sınıf 3	LR Source	Method	Information
Sentetik Kanın Nüfuzuna Karşı Direnç								
The Average Thickness of the Material Tested	mm	0,22	-	-	-	-	ISO 16603	(*) 148
The Average Mass of the Material Tested	g	0,3214	-	-	-	-	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 Thickness 1	mm	0,22	-	-	-	-	ISO 16603	(*)
Test Specimen Mass 1	g	0,3202	-	-	-	-	ISO 16603	(*)

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Parameters	Unit	Finding	Sınıf 1	Sınıf 2	Sınıf 3	LR Source	Method	Information
Test Spicemen 2: 0 kPa	-	Succeed	-	-	-	-	ISO 16603	(*) 149
Test Spicemen 2: 1,75 kPa	-	Succeed	-	-	-	-	ISO 16603	(*) 149
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 Thickness 2	mm	0,22	-	-	-	-	ISO 16603	(*)
Test Specimen Mass 2	g	0,3232	-	-	-	-	ISO 16603	(*)
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
Test Spicemen Thickness 3	mm	0,22	-	-	-	-	ISO 16603	(*)
Test Specimen Mass 3	g	0,3208	-	-	-	-	ISO 16603	(*)
The Procedure Selected	-	D	-	-	-	-	ISO 16603	(*)
Microbial Penetration - Dry Bacterium								
Microbial Penetration - Dry Bacterium	log cfu	1,1	2<-≤3	1<-≤2	≤1	104	ISO 22612	(*) 150, 151
Test Spicemen 1 - Colony Count	cfu	14	-	-	-	-	-	(*)
Test Spicemen 2 - Colony Count	cfu	19	-	-	-	-	-	(*)
Test Spicemen 3 - Colony Count	cfu	17	-	-	-	-	-	(*)
Test Spicemen 4 - Colony Count	cfu	10	-	-	-	-	-	(*)
Test Spicemen 5 - Colony Count	cfu	12	-	-	-	-	-	(*)
Test Spicemen 6 - Colony Count	cfu	14	-	-	-	-	-	(*)
Test Spicemen 7 - Colony Count	cfu	18	-	-	-	-	-	(*)
Test Spicemen 8 - Colony Count	cfu	10	-	-	-	-	-	(*)
Test Spicemen 9 - Colony Count	cfu	15	-	-	-	-	-	(*)



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Test Spicemen 10 - Colony Count	cfu	12	-	-	-	-	-	(*)
Ortalama Koloni Sayısı	cfu	14	-	-	-	-	-	(*)
Negative Control Count 1	cfu	<1	-	-	-	-	-	(*)
Negative Control Count 2	cfu	<1	-	-	-	-	-	(*)
Talc Concentration	cfu/g	4,1*10 ⁸	-	-	-	-	ISO 22612	(*)
Microbial Penetration - Wet Bacterium								
Test Spicemen 1 - Colony Count	cfu	338	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 2 - Colony Count	cfu	312	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 3 - Colony Count	cfu	357	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 4 - Colony Count	cfu	298	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 5 - Colony Count	cfu	341	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 1 - Barrier Index	-	3,86	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 2 - Barrier Index	-	3,96	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 3 - Barrier Index	-	3,59	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 4 - Barrier Index	-	3,83	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 5 - Barrier Index	-	3,51	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 1 - Percentage of Penetration	%	5,45	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 2 - Percentage of Penetration	%	5,03	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 3 - Percentage of Penetration	%	5,76	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 4 - Percentage of Penetration	%	4,81	-	-	-	-	ISO 22610	(*) 154
Test Spicemen 5 - Percentage of Penetration	%	5,5	-	-	-	-	ISO 22610	(*) 154
Average Penetration Percentage	%	5,31	-	-	-	-	ISO 22610	(*)
Bacillus atrophaeus Concentration	spores/mL	6,2*10 ³	-	-	-	-	ISO 22610	(*)
Pathogen Penetration								
The Procedure Selected	-	D	-	-	-	-	ISO 16604	(*) 155
Hydrostatic Pressure - 1	kPa	20	-	-	-	-	ISO 16604	(*)
Test Spicemen 1	-	Succeed	-	-	-	-	ISO 16604	(*) 157



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Parameters	Unit	Finding	Sınıf 1	Sınıf 2	Sınıf 3	LR Source	Method	Information
Hydrostatic Pressure - 2	kPa	20	-	-	-	-	ISO 16604	(*)
Test Spicemen 2	-	Succeed	-	-	-	-	ISO 16604	(*) 157
Hydrostatic Pressure - 3	kPa	20	-	-	-	-	ISO 16604	(*)
Test Spicemen 3	-	Succeed	-	-	-	-	ISO 16604	(*) 157
Pre-test Bacteriophage Titer	pfu/mL	3,4*10 ⁸	-	-	-	-	ISO 16604	(*)
Post-test Bacteriophage Titer	pfu/mL	3*10 ⁸	-	-	-	-	ISO 16604	(*)
Negative Control	-	Succeed	-	-	-	-	ISO 16604	(*)
Positive Control	-	Fail	-	-	-	-	ISO 16604	(*)

Source of Limit Ranges : 104 El ve Kol Koruması ve Can Yele i Dahil Koruyucu Kıyafetler (EN 14126)

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.

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 13706-B1 Escherichia coli bacteriophage Phi X174

PFU: Plate forming unit

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

R1 : This code means correction at this report. 21/10/2020 dated and 2025393E numbered report is invalid. Manufacturer company information has been arranged. Our report has been rearranged as new report number is 2025393E-R1.



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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 Enviromental Regulations.
6. The test report without sign is not valid.
7. (*) This parameter is covered by our accreditation scope.

End of Report

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Laboratory Manager

Microbial Penetration - Wet Bacteria Analysis Report Attachment (ISO 22610)										
Sample No:		2025393E								
Analysis Results										
	Bacillus atrophaeus 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	6200	54	65	63	72	84	105	338	5,45	
Test Specimen - 2		37	78	49	87	61	119	312	5,03	
Test Specimen - 3		77	59	89	57	75	89	357	5,76	
Test Specimen - 4		62	55	73	60	48	125	298	4,81	
Test Specimen - 5		69	87	71	69	45	97	341	5,50	
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	443	0,12	0,27	0,41	0,57	0,76	3,86	157	<4	<25
Test Specimen - 2	431	0,09	0,27	0,38	0,58	0,72	3,96	119	<4	<25
Test Specimen - 3	446	0,17	0,30	0,50	0,63	0,80	3,59	128	<4	<25
Test Specimen - 4	423	0,15	0,28	0,45	0,59	0,70	3,83	137	<4	<25
Test Specimen - 5	438	0,16	0,36	0,52	0,68	0,78	3,51	161	<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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