



A&Z MED
Personal Protective Equipment

OLI-2021
PROTECTIVE COVERALL
TYPE 5-B / 6-B



By special technologies provided, liquids slideoff without penetrating the fabric.



Breathable and waterproof PU coating layer that does not harm human health and enviroment.



Our products prevent perspiration by their breathability characteristic, and provide a healthy and comfortable use.



Prevent the expansion and growth of bacterias.



Textile products that does not cause allergy.

STANDARTS:

EN 14126

EN 13688

EN-ISO 13982-1

EN 13034

EN 1149-5



PPE - 665

CE

FDA

2163



M L XL



A&Z MED
Personal Protective Equipment

OLI-2021 PROTECTIVE COVERALL

DİKKAT!

Aşağıdaki kullanım şekil ve ortamları uygun değildir:
 Ağır yağıtlar, kırılcımlar, alev ve yanıcı sıvılarla temas.
 Elbise üzerinde sıvı birikmesine yol açan maruz kalma durumları.
 Yüksek mekanik risk barındıran ortamlar.
 CE tip 5/6 belgesinden daha ileri tehlikeli maddelere maruz kalınan ortamlar.
 Aşırı yüksek sıcaklığı ulaşan ortamlar.
 Tulumda herhangi bir bozulmanın mevcut olması.

TİPİK KULLANIM ALANLARI

Koruyucu tulumlar, hassas ürünlerden kaynaklanan tehlikeli maddelerden çalışanlar ve insandan kaynaklanan kirlilikten süreçlerin korunması amacıyla geliştirilmiştir.

MUHAFAZA VE BERTARAF

Koruyucu tulumlar daima temiz ve kuru bir ortamda muhafaza edilmeli, uzun süre depolanacaksa doğrudan güneş ışığı görmeyecek biçimde yerleştirilmelidir. Muhafaza ortamı temiz, kuru ve oda sıcaklığında olmalıdır. Kirlenen elbiseler dikkatle ve ilgili mevzuata uygun şekilde muamele ve bertaraf edilmelidir.

ACHTUNG!

Folgende Verwendungsarten und -Umgebungen sind nicht geeignet:
 Kontakt mit schweren Ölen, Funken, Flammen und brennbaren Flüssigkeiten.
 Expositionssituationen, in welchen sich die Flüssigkeit auf der Kleidung ansammelt.
 Umgebungen mit hohen mechanischen Risiken.
 Umgebungen, in welchen sich gefährliche Stoffe, die höher als CE Typ 5/6 eingestuft sind, befinden.
 Umgebungen mit extremen Temperaturen.
 Eine beliebige Beeinträchtigung der Anzugs.

TYPISCHE VERWENDUNGSBEREICHE

Schutzzüge werden entwickelt, um die Mitarbeiter vor Gefahrenstoffen aus empfindlichen Substanzen und die Prozesse vor durch Menschen verursachter Verschmutzung zu schützen.

LAGERUNG UND ENTSORGUNG

Schutzzüge müssen stets sauber und trocken aufbewahrt werden. Ist eine Lagerung über eine längere Zeit hinweg geplant, sind die vor direktem Sonnenlicht zu schützen. Die Lagerung hat in einem sauberen, trockenen Umfeld bei Raumtemperatur zu erfolgen. Verschmutzte Kleidung muss sorgfältig und in Übereinstimmung mit einschlägigen Gesetzen behandelt und entsorgt werden.

ATENÇÃO!

Não é adequado para os seguintes usos e ambientes:
 Contato com óleos pesados, faíscas, chamas e líquidos inflamáveis.
 Situações de exposição que causam acúmulo de líquido nas roupas.
 Ambientes com altos riscos mecânicos.
 Ambientes expostos a materiais perigosos mais do que o tipo CE 5/6.
 Ambientes que atingem temperaturas extremas.
 A existência de qualquer deterioração nas batas.

ÁREAS DE USO TÍPICO

As batas de proteção foram projetadas para proteger os trabalhadores de substâncias perigosas e processos de contaminação por pessoas.

ARMAZENAGEM E ELIMINAÇÃO

As batas de proteção devem sempre ser mantidas em um ambiente limpo e seco; se armazenadas por um longo período de tempo, devem ser colocadas de forma a não ver a luz solar direta. O ambiente de armazenamento deve estar limpo, seco e em temperatura ambiente. Roupas sujas devem ser manuseadas e descartadas com cuidado de acordo com a legislação aplicável.

WARNINGS!

Do not use for:
 Contact with heavy oils, sparks or flames or combustible liquids.
 Exposure situations resulting in spay or liquid buildup on the suit.
 Environments with high mechanical risks.
 Environments with exposure to hazardous substances beyond CE type 5/6 certification.
 Environments with conditions of excessive heat.
 Do not wear the coverall if it presents any malfunction.

TYPICAL AREAS OF USE

Protective coveralls designed to protect workers from hazardous substances of sensitive products and processes from contamination by people.

STORAGE AND DISPOSAL

Protective coveralls always be stored in a clean and dry condition and if being stored for long periods of time, out of direct sunlight. The storage environment should be clean, dry and of ambient temperature. Handle and dispose of contaminated garments with care and in accordance with applicable regulations.

¡ATENCIÓN!

No es adecuado para los siguientes usos y ambientes:
 Contacto con aceites pesados, chispas, llamas y líquidos inflamables.
 Situaciones de exposición que provocan acumulación de líquido en las ropas.
 Ambientes con altos riesgos mecánicos.
 Ambientes expuestos a materiales peligrosos más que CE tipo 5/6.
 Ambientes que alcanzan temperaturas extremas.
 La existencia de cualquier deterioro en las batas.

ÁREAS DE USO TÍPICO

Las batas protectoras se diseñaron para proteger a los trabajadores de las sustancias peligrosas y procesos de contaminación por personas.

ALMACENAMIENTO Y ELIMINACIÓN

Las batas protectoras siempre deben mantenerse en un ambiente limpio y seco, si se almacenan durante mucho tiempo, deben colocarse de modo que no vean la luz solar directa. El entorno de almacenamiento debe estar limpio, seco y a temperatura ambiente. La ropa sucia se debe manipular y desechar con cuidado de acuerdo con la legislación aplicable.

ВНИМАНИЕ!

Не допускаются нижеприведенные формы и среда применения:
 Контакт с тяжелыми маслами, искрами, огнем и горючими жидкостями.
 Ситуации, которые приводят к скоплению жидкости на одежде.
 Среды, где имеет место высокий механический риск.
 Среды, в которых происходит воздействие опасных веществ, которые являются более современными по сравнению с имеющимися сертификатом CE тип 5/6.
 Среды, где формируется слишком высокая температура.
 Какое-либо нарушение в комбинации.

СТАНДАРТНАЯ СФЕРА ПРИМЕНЕНИЯ

Защитные комбинезоны предназначены для защиты рабочих от опасных веществ, источником которых являются чувствительная продукция, и процессов от загрязнения, источником которого является человек.

ХРАНЕНИЕ И УТИЛИЗАЦИЯ

Защитные комбинезоны следует хранить в чистом и сухом виде, а при длительном хранении защищать от прямых лучей солнца. Место хранения должно быть чистым, сухим и иметь температуру окружающей среды. С загрязненной спецодеждой следует обращаться внимательно и утилизировать её в соответствии с порядком, предусмотренным законодательством.

ATTENTION !

Ne pas utiliser
 En contact avec des huiles lourdes, étincelles, flammes ou liquides inflammables ;
 En état exposé aux risques de formation de dépôt des fluides sur les vêtements ;
 Dans un environnement présentant des risques mécaniques au niveau élevé ;
 Dans un environnement exposé aux matières dangereuses plus sérieuses par rapport à la certification CE type 5/6 ;
 Dans un environnement présentant des températures excessivement élevées ;
 Lorsque la combinaison présente un défaut.

DOMAINES D'UTILISATION TYPIQUES :

Les combinaisons protectrices sont destinées à se préserver des substances dangereuses résultantes des produits sensibles pour les employés et de la contamination des procédés par les hommes.

CONSERVATION ET ELIMINATION :

Les combinaisons protectrices doivent toujours être conservées dans un environnement propre et sec et doivent être placées de manière à éviter toute exposition directe aux rayons solaires si elles seront stockées pendant une longue durée. Le milieu de conservation doit être propre, sec et à la température ambiante. Les combinaisons contaminées doivent soigneusement être traitées et éliminées conformément à la réglementation pertinente.

AVVISO!

Non sono adatti per i seguenti tipi di utilizzo:
 Contatto con olio combustibile, scintilla, fiamme e liquidi infiammabili.
 Situazioni di esposizione che fanno l'accumulo di fluido sulla tuta di lavoro.
 Ambienti con elevati rischi meccanici.
 Ambienti esposti a sostanze pericolose oltre il certifico CE 5/6.
 Ambienti alle temperature estreme.
 Non indossare la tuta in caso di malfunzionamento.

AREE DI UTILIZZO TIPICHE

Tute protective sono state progettate con l'obiettivo di proteggere i lavoratori dalle sostanze pericolose provenienti prodotti sensibili ed i processi dall'inquinamento umano.

STOCCAGGIO E SMALTIMENTO

Le tute protettive devono sempre essere conservate in un ambiente pulito e asciutto, se vengono conservate per lunghi periodi di tempo, devono essere posizionate al riparo dalla luce solare diretta. L'ambiente di stoccaggio deve essere pulito, asciutto ed a temperatura ambiente. Le tute sporche devono essere maneggiate e smaltite con cura ed in conformità con la legislazione applicabile.

تحذير!

شكل الاستخدام والبيئات التالية ليست مناسبة
 ملامسة الزيوت الثقيلة والشمر واللهب والسوائل القابلة للاشتعال
 حالات التعرض التي تتسبب في تراكم السوائل على الملابس
 البيئات ذات المخاطر الميكانيكية العالية
 CE 5/6 البيئات المعرضة للماء الخطرة أكثر من الوثيقة نوع
 البيئات التي تصل إلى درجات الحرارة القصوى
 وجود أي تلف في الملابس الواقعية

مناطق الاستخدام النموذجي

تم تطوير الملابس الواقعية بهدف حماية العامل من المواد الخطرة الناشئة عن المنتجات الحساسة.
 والتلوث الناجم عن الإنسان

الحفظ والتخلص

يجب دائماً حفظ الملابس الواقعية في بيئة نظيفة وجافة إذا سيتم تخزينها لفترة طويلة فيجب وضعها في بيئة غير معرضة لأشعة الشمس المباشر. يجب أن تكون بيئة التخزين نظيفة وجافة وفي درجة حرارة الغرفة. يجب التعامل مع الملابس القذرة والتخلص منها بعناية ووفقاً للتوجيهات المعروض بها

Made in Turkey

Do not wash.	Do not dry clean.	Single use.

Do not iron.	Do not machine dry.	Do not bleach.



8682742370713





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Personal Protective Equipment

OLI-2021
PROTECTIVE COVERALL
TYPE 5-B / 6-B



MEASUREMENT CHART

MEASUREMENTS	M	L	XL
FRONT LEGHT FROM SHOULDER POINT	156,5	160,5	164,5
HOOD OPENING AT FRONT	8	8	8
1/2 HIP	62	65	68
LEG / SIDE SEAM	118	120,5	123
BODY LENGTH FROM SHOULDER TO WAIST	38,5	40	41,5
LEG / INSEAM	74,5	75,5	76,5
SLEEVE LENGTH FROM NECK	73,5	74,5	75,5
1/2 WAIST	63	66	69
1/2 SLEEVE OPENNING (STRETCH)	14	14,5	15
1/2 SLEEVE OPENING (RELAX)	8	8,5	9
1/2 NECK OPENNING	25	26	27
FRONT NECK DROP	6,5	7	7,5
BACK NECK DROP	4	4	4
1/2 LEG OPENNING (RELAX)	11	11,5	12
1/2 LEG OPENNING (STRETCH)	23,8	24,5	25,3
1/2 UPPER LEG	37	38,5	40
1/2 HOOD WIDTH	27	27,5	28
HOOD HEIGHT	36,5	36,5	36,5
FRONT PLACKET WIDTH	5	5	5
FRONT PLACKET LENGTH	71	72	73
FRONT RISE	49	50,5	52
BACK RISE	53,5	55	56,5

İBİSLER TEKSTİL A.Ş.

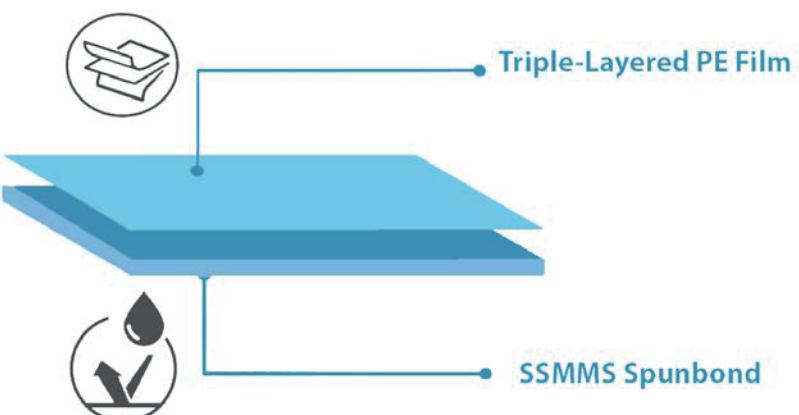
Orhangazi Mah. Tunç Cad. No:5 34538 Esenyurt / İstanbul - TURKEY
+90 212 602 04 05 www.ibisler.com info@ibisler.com



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Personal Protective Equipment

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TYPE 5-B / 6-B

MATERIAL SPECIFICATION FORM

SPEC TYPE	LAMINATED FILM PRODUCT SPECIFICATION				
MATERIAL TYPE	55 gsm Reinforced Laminated Fabric				
REQUIREMENT	TEST METHOD	UNITS	TARGET	MINIMUM	MAXIMUM
Grammage (Total)	WSP 130.1	g/m ²	55,0	52,0	58,0
MD Tensile at Peak	WSP 110.4	N/25mm	48,0	43,0	-
MD Elongation at Peak	WSP 110.4	%	58,0	48,0	68,0
CD Tensile at Peak	WSP 110.4	N/25mm	28,0	23,0	-
CD Elongation at Peak	WSP 110.4	%	58,0	48,0	68,0
Hydrostatic Head	WSP 70.6	mmSS	2.000	1.900	-
Gloss Level	ASTM D2457	Gloss unit	4,0	3,0	5,0
Opacity		%	70,0	65,0	75,0
Thickness		mm	0,220	0,190	0,250
Slit Width		mm	Requested	-3	3
Layers of the Material					
					

UNIVERSAL



UNIVERSAL
CERTIFICATION

NB 2163

EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163 - PPE - 665

Electrostatic Protective Clothing against Infective Agents;

Type 5-B - Providing Protection to the Full Body against Airborne Solid Particulates

Type 6-B - Offering Limited Protective Performance against Liquid Chemicals

İBİŞLER TEKSTİL SANAYİ VE DISİNCARET ANONİM ŞİRKETİ

Orhangazi Mahallesi Tunç Cadde No:5 34358 Esenyurt ISTANBUL / TURKEY

are tested and evaluated according to

EN 14126:2003/AC:2004, EN ISO 13922-1:2004/A1:2010, EN 13034:2005+A1:2009, EN 149-5:2018.

Based on the type examination conducted with the evaluation of test report, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is proved that the product meets the requirements of the regulation.

Product Definition

Brand Name: A&Z MED, Model: OLI - 2021

Resistance to penetration by contaminated liquids under hydrostatic pressure: Class 3

Resistance to penetration by infective agents due to mechanical contact with substances containing organic solvents and liquids: Class 2

Resistance to penetration by contaminated liquid aerosols: Class 1

Resistance to penetration by contaminated solid particles: Class 2

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:

- 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 no later than 1 year from the beginning of serial production

This certificate is initially issued on 08/05/2020 and will be valid for 5 years if there is no change in the relevant harmonised standard affecting the essential health and safety requirements

CE
2163

Suat KAÇMAZ
UNIVERSAL CERTIFICATION
Director



EU DECLARATION OF CONFORMITY

MANUFACTURER

İBİŞLER TEKSTİL SANAYİ VE DIŞ TİCARET ANONİM ŞİRKETİ

Orhangazi Mahallesi Tunç Caddesi No:5 34358 Esenyurt İSTANBUL / TURKEY
ISTANBUL / TURKEY

PRODUCT DESCRIPTION

A&Z MED – OLI - 2021 Model, Electrostatic Protective Clothing against infective agents;

Type 5-B - Providing Protection to the Full Body against Airborne Solid Particulates

Type 6-B - Offering Limited Protective Performance against Liquid Chemicals
with the following classification;

Resistance to penetration by contaminated liquids under hydrostatic pressure: Class 3

Resistance to penetration by infective agents due to mechanical contact with substances containing contaminated liquids: Class 1

Resistance to penetration by contaminated liquid aerosols: Class 1

Resistance to penetration by contaminated solid particles: Class 2

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 Personnel Protective Equipment Regulation establishing technical requirements for Category III products,
- Complies with Technical harmonised standards EN IEC 626:2003/AC:2004, EN ISO 13982:2004/A1:2010, EN 13034:2001/A1:2005, EN 1149-5:2018
- All required tests referred in above standard are conducted,
- Complies with other relevant harmonized legal, national and community standards
- After the assessment of conformity the EU Type Examination certificate is issued, after all technical evaluations for conformity to the regulation and harmonised standards conducted, by:
UNIVERSAL CERTIFICATION, SURVEILLANCE SERVICES and TRADE Co, as 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.

İlhan İBİŞ
General Manager
08/05/2020

CE
2163



Certificate of Registration 2020

This is to certify that the registration of

IBISLER TEKSTIL SANAYI VE DIS TICARET ANONIM SIRKETI

B BLOK, NO: 5 ORHAN GAZI MAHALLESI, TUNC CADDESI, ESENYURT,

İSTANBUL, TURKEY - 4522

with U.S. Food and Drug Administration, as required by 21 CFR Part 80, is successfully completed by Liberty Management Group Ltd with the information provided by Ibisler Tekstil Sanayi Ve Dis Ticaret Anonim Sirketi.

Owner/Operator Number

10071388

Date of Registration

May 22, 2020

Date of Expiration

December 31, 2020

US Agent

Liberty Management Group Ltd.

Device Listing Numbers

See Annex

Certificate Number

3005220120

This certificate does not make representations or warranties to any person or entity other than the named certificate holder; it is issued for record keeping purpose only. This certificate does not denote endorsement or approval of certificate holder's facility or product by the U.S. food and Drug Administration. Liberty management Group Ltd. assumes no liability to any person or entity in connection with the foregoing.

The U.S. Food and Drug Administration does not issue a certificate of registration, nor does the U.S. Food and Drug Administration recognize a certificate of registration. Liberty Management Group Ltd. is not affiliated with the U.S. Food and Drug Administration.

LMG LIBERTY
MANAGEMENT
GROUP LTD.
75 Executive Drive, Aurora, Illinois, USA
www.fdahelp.us

Manoj Zacharias

President

Liberty Management Group LTD.

Dated: June 11, 2020

Certificate of Registration

2020

Annex - Device Listings

Listing Number	Code	Device Name - Proprietary Names
D404264	OEA	Non-Surgical Isolation Gown - A&Z Med Gown, A&Z Med Overall
D404263	SKR	Face mask (except N95 respirator) for general public healthcare personnel per IIE guidance - A&Z Med Mask

COPY

PROTECTED

This is to Certify that



A&Z A&Z MED

İBİŞLER TEKSTİL SAN. VE DIŞ TİC. A.Ş.

ORHANGAZİ MAH. TUNÇ CAD. NO:5/B ESENYURT / İSTANBUL, TURKEY

Conforms to the Requirements of

ISO 9001:2015

Quality Management System

Tulum ve Medikal Maske Dikimi ve Satışı.

Jumpsuit and Medical Mask Sewing and Sale .

Certificate Number : Q.020.080.TR

Expiry Date : 17.04.2023

Certification Period : 3 Years / 16.04.2023

Certified Date : 17.04.2020

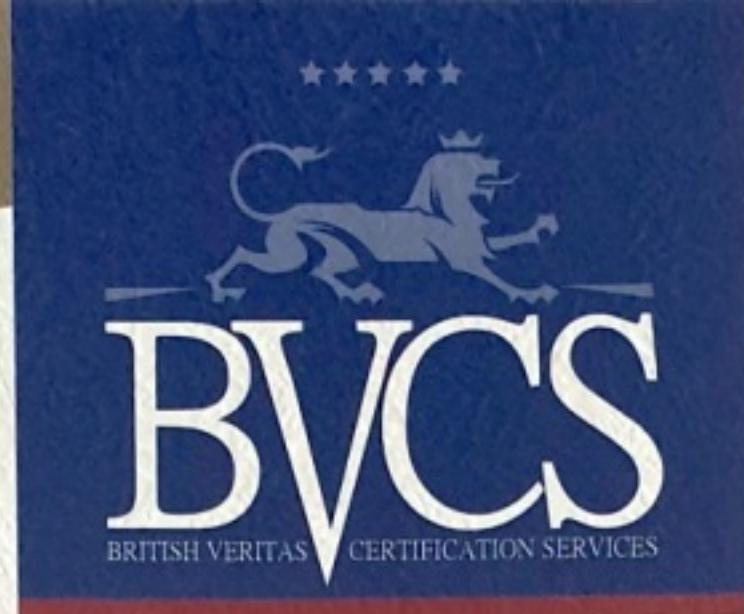
Approving Officer:



HMI Certification Training Ltd.
492 Bearwood Rd, Smethwick B66 4HB, Birmingham / West Midland - England
This certificate remains the property of HMI it is valid if it is subject to arrangement
between the certificated client and HMI. For further details go to
www.bvcscert.com

www.bvcscert.com

This is to Certify that



A&Z A&Z MED

İBİŞLER TEKSTİL SAN. VE DIŞ TİC. A.Ş.

ORHANGAZİ MAH. TUNÇ CAD. NO:5/B ESENYURT / İSTANBUL,TURKEY

Conforms to the Requirements of

ISO 13485:2016

Medical Device Quality Management System

Tulum , Medikal Önlük ve Medikal Maske Dikimi ve Satışı.

Jumpsuit, Medical Gowns and Medical Mask Sewing and Sale .

Certificate Number : M.020.080.TR

Expiry Date : 17.04.2023

Certification Period : 3 Years / 16.04.2023

Certified Date : 17.04.2020

Approving Officer:



www.bvcscert.com

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

20013152

04-20

Gen.fl36-2/03

Customer name:

İBİŞLER TEKSTİL SAN. VE DIŞ TİC A.Ş

Address:

ORHANGAZİ MAH. TUNÇ CAD. NO:5 ESENYURT/İSTANBUL

Buyer name:

-

Contact Person:

SALİH KAŞMER

Order No:

-

Article No:

-

Name and identity of test item: White protective overalls**The date of receipt of test item:** 16.04.2020**Re-submitted/re-confirmation date:** -**Date of test:** 16.04.2020-27.04.2020**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:

7

**Date**
27.04.2020**Customer Representative**
Hatice ACARALP**Head of Testing Laboratory**
Sevim A. RAZAK

27.04.2020

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Testing reports without signature and seal are not valid.

**EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.**

20013152
04-20

REQUIRED TESTS	RESULT	COMMENTS
PHYSICAL PROPERTIES TESTS		
Abrasion	-	Class 6
Water Permeability	P	See result
Tear Strength	-	Class 2
Tensile Strength	-	Class 1
Repellency to Liquids	-	See result
Resistance To Penetration By Liquids	-	See result
Seam Strength	-	Class 2
Accessory Strength	-	See result
Flammability ⁽¹⁾	F	See result

P: Pass

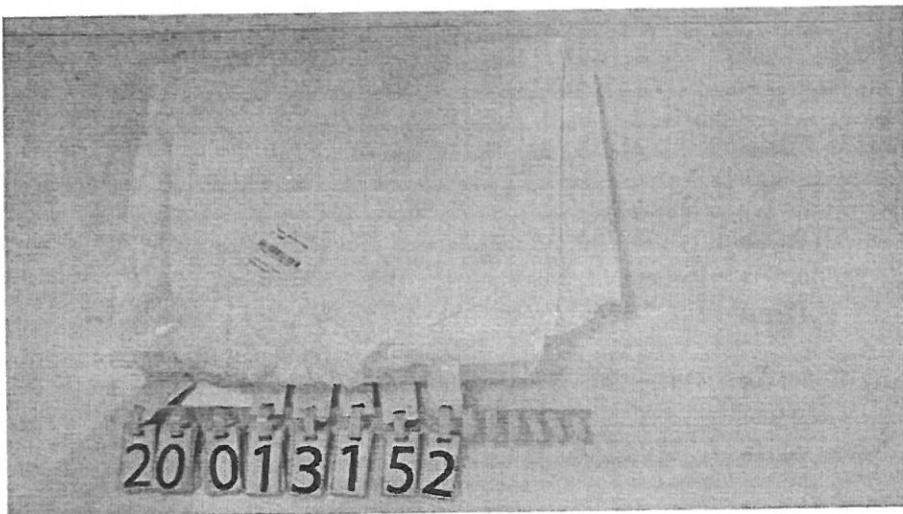
F: Fail

R: Refer to retailer technologist

Tests were evaluated and classified according to BS EN 14325:2018 limit values.

⁽¹⁾ Tests were evaluated EN 13274-4:2001-Method 2 limit values

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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**EKOTEKS LABORATUVAR ve GÖZETİM
HİZMETLERİ A.Ş.**

20013152
04-20

TEST RESULTS

Test Method : BS EN 14325:2018 (PRORECTIVE 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 ($20 \pm 2^\circ\text{C}$ - $65\% \pm 4$).

Gen.fl362/03

RESULT

CLASS

4

No abrasion @ 450 revs

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 water 10°C . Pressure increase ratio 10 mbar/dk.

Performed in the conditioned room ($20 \pm 2^\circ\text{C}$ - $65\% \pm 4$)

	<u>RESULT</u>	<u>REQUIREMENT</u>
Sample 1	576.3 mm SS	>200 mmSS
Sample 2	1683.0 mm SS	
Sample 3	1305.6 mm SS	
Sample 4	1683.0 mm SS	
Sample 5	L.S.	
Average	1312.0mm SS	
L.S.: Lack of Sample		

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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)

	<u>RESULT</u>	<u>CLASS</u>
Width	35.7 N	1
Length	68.2 N	Classified according to the Table-4

Table-4 Classification of Trapezoidal Tear Resistance

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

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).

	<u>RESULT</u>	<u>CLASS</u>
Width	41.4 N	1
Length	83.9 N	Classified according to the Table-5

Table-4 Classification of Tensile Strength

<i>Class</i>	<i>Tensile Strength</i>
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 ($20\pm2^{\circ}\text{C}$ - $65\%\pm4$).

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

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

Chemical	Concentration weight %	Temperature of chemical ($\pm2^{\circ}\text{C}$)
Sulfuric Acid (H ₂ SO ₄)	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 (H ₂ SO ₄)	30	0 %	3	95.7 %	3
Sodium Hydroxide (NaOH)	10	0 %	3	95.9 %	3
o-Xylene	Undiluted	4.5 %	2	80.6 %	2

*I_P:index of penetration
I_R: index of repellency
I_A: index of absorbtion*

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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: $100 \text{ mm} \pm 1 \text{ mm}$.

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($20\pm 2^\circ\text{C}$ - $65\%\pm 4$)

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	<u>Seam Strength (N)</u>	<u>Fail</u>	<u>CLASS</u>
Sleeve	75.2 N	FTJ	1 Classified according to the Table-13
Crotch	54.2 N	FTJ	
Inner side seam	82.9 N	FTS	
Front center seam	68.2 N	FTS	
Back center seam	71.8 N	FTS	
Waist	77.3 N	FTJ	
Hat	63.3 N	FTS	

FTS : Fabric Tear At The Seam

FTJ : Fabric Tear At The Jaw

Table 13- Classification of Seam Strength

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

ACCESSORY STRENGTH; ISO 13935-2: 2014

INSTRON 4411

Performed in the conditioned room($20\pm 2^\circ\text{C}$ - $65\%\pm 4$)

	<u>RESULT</u>	<u>Requirement</u>
Pull Strength	181.2 N	-

* No change in the sample was observed.

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FLAMMABILITY :

Clause 4.14. Flammability Resistance EN 13274-4:2001()- Method 2*

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Conditioning	65±5 % RH, 20±2°C/24 hours
Test atmosphere	16-32° (±1°C)
Flame height	40± 4 mm
Gas type	Propane
Flame temperature	800±50°C
Flame application time	12 sec
RESULT	FAIL; Complete burning of sample during 12 sec. duration of flame application.