CE

EC DECLARATION OF CONFORMITY FOLLOWING THE EUROPEAN DIRECTIVES 93/42/EEC and 2007/47/EC - Medical Device Directive

93/42/EEC and 2007/47/EC - Tıbbi Cihaz Direktifi YÖNETMELİKLERİ'NE GÖRE AT UYGUNLUK BEYANI

Certificate No / Belge No : UB-PPE 10022020

Manufacturer's Name	ESTILO MODA TEKSTIL TARIM HAYVANCILIK INSAAT IC DIS
Üretici	TIC. VE SAN. LTD. STI.
Manufacturer's address	
Üretici adresi	Gazi Osman Pasa Mah. Kolej Sok. No:2/A Turhal/TOKAT/ TURKEY
Phone (Tel)	+90 356 276 88 82
E-mail (E-posta)	info@estilomodatekstil.com.tr
Authorised person to compile the relevant technical documentation	Halil İbrahim TÜRKDİL
Teknik dosyayı hazırlamakta yetkili olan ve Türkiye'de yerleşik kişinin adı ve adresi	Gazi Osman Pasa Mah. Kolej Sok. No:2/A Turhal/TOKAT/ TURKEY
Product description	Protective Foot Cover (Non-sterile, Class I not sterile or measuring)
Ürün tanımlaması	Koruyucu Ayaklık (Non-steril, Sınıf I Steril yada ölçme fonksiyonu olmayan)
	93/42/EEC and 2007/47/EC - Medical device directive
	ISO 13485:2016 - Medical devices - Quality management systems -
Harmonized European directive(s) ve Related Standard	Requirements for regulatory purposes 93/42/EEC and 2007/47/EC - Medical device directive, ISO 13982- 1:2004 -Protective clothing for use against solid particulates(type 5), EN 13034:2005+A1:2009 -Protective clothing against liquid chemicals.(Type6), EN 14126:2003+AC:2004 - Protective clothing - Porformence requirements and tests methods for protective clothing
İlgili Harmonize AT direktifleri ve İlgili Standart	against infective agents, EN 1149-5 : 2018 - Protective clothing - Electrostatic properties

herewith declare that the product "Protective Foot Cover" are in conformity with the provisions of the following essential requirements of 93/42/EEC and 2007/47/EC - MEDICAL DEVICE DIRECTIVE

and standarts when produced and applied in accordance with production and application instructions contained in the Technical File documentation.

Yukarıda tarifi yapılan ürünümüz olan "Koruyucu Ayaklık"ın 93/42/EEC and 2007/47/EC - Tıbbi Cihaz Direktifi ve standartlar ile uyumlu olarak ve Teknik Dosya yer alan

üretim ve uygulama talimatlarına uygun şekilde, temel sağlık ve güvenlik gerekliliklerini karşıladığını beyan ederiz.

For and on behalf of the ESTILO MODA TEKSTIL TARIM HAYVANCILIK INSAAT IC DIS TIC. VE SAN. LTD. STI.;

ESTILO MODA TEKSTIL TARIM HAYVANCILIK INSAAT IC DIS TIC. VE SAN. LTD. STI. adına;

Halil İbrahim TÜRKDİL, Manufacturing operations and engineering (Üretim operasyonları ve mühendislik) Issued in (Yayınlanma Yeri): Tokat/TURKEY Issue date (Yayınlanma tarihi): 10.02.2020

Signature/ İmza :

EU DECLARATION OF CONFORMITY

MANUFACTURER ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ

Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal TOKAT / TURKEY

PRODUCT DESCRIPTION

ESTILO – ES 6124 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 2

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 ensured with the following mechanism:

- Complies with EU 2016/425 Personel Protective Equipment Regulation establishing technical requirements for Category III products,
- Complies with Technical harmonised standards EN 14126/AC:2004, EN ISO 13982-1:2004/A1:2010, EN 13034:2005+A1:2009, EN 1149-5:2018
- 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, by;
 - UNIVERSAL CERTIFICATION, SURVEILLANCE SERVICES and TRADE Co, as Notified Body number 2163
- The product is under surveillance of same Notified Body, NB 2163 according to the Annex III (Module D) of the PPE Regulation (EU) 2016/425, for quality assurance.

MARKING, LABELLING

Marking, labelling and user information are prepared in accordance with EU 2016/425 Personal Protective Equipment Regulation and the harmonised product standards given above. 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.

> Halil İbrahim TÜRKDİL General Manager 28/04/2020





EU TYPE EXAMINATION CERTIFICATE

Certificate No: 2163 - PPE - 653

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

ESTILO MODA TEKSTIL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ

Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal TOKAT / TURKEY are tested and evaluated according to

EN 14126:2003/AC:2004, EN ISO 13982-1:2004/A1:2010, EN 13034:2005+A1:2009, EN 1149-5:2018

Based on the type examination conducted with the evaluation of test reports, technical file according to Personal Protective Equipment Regulation (EU) 2016/425 Annex 5, it is approved that the product meets the requirements of the regulation. The details of essential requirement compliance is given in technical report numbered KKD-2163-653

Product Definition

Brand Name: ESTILO, Model: ES 6124

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 2

Resistance to penetration by contaminated liquid aerosols: Class 1 Resistance to penetration by contaminated solid particles: Class 2

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;

- 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 **28/04/2020** and will be valid for 5 years if there is no change in the relevant harmonised standard affecting the essential health and safety requirements



<u>Suat KAÇMAZ</u> UNIVERSAL CERTIFICATION Director





TEKNİK DEĞERLENDİRME RAPORU

RAPOR TARİHİ / NO: 05.05.2020 / KKD-2163-653

Firma : ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ. Üretim Yeri: Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/ TÜRKİYE

Bu rapor yukarıda adı geçen National Protective Testing LLC (NPT) firmasının 05.05.2020 tarih ve NPT/20042012659 nolu, raporu ve bu raporda belirtilen ürüne ait EN 14126:2003/AC:2004, EN ISO 13982-1:2004/A1:2010, EN 13034:2005+A1:2009, EN 1149-5:2018 standardlarına göre elde edilen test sonuçlarının, Tüm Kişisel Koruyucu Donanımlarda Bulunması Gereken Temel Gereklilikleri ile olan ilişkisi değerlendirilmiş ve sonuçların uygun olduğu görülmüştür.

Bu rapor firmaya verilmiş olan **2163 - PPE – 653** nolu AB Tip İnceleme Sertifikasının eki ve ayrılmaz bir parçası mahiyetindedir. Test sonuçları ve düzenlenen belge sadece tarif edilen ürüne aittir. Teknik rapor toplam 9 sayfadan ibarettir.

Ürün Tanıtımı : Koruyucu Giyecekler - Patojen Organizmalara Karşı - Elektrostatik Özellikleri Olan Giyecek Tipi : Tip 5 - Tip 6 Hava İle Yayılan Katı Parçacıklara Karşı Tüm Vücuda Koruma Sıvı Kimyasal Maddelere Karşı Sınırlı Koruma

Marka : Estilo Model : ES6124 Ürün Bedenleri : S - M – L – XL – XXL - XXXL







12.12.2012

UFR-383



UNIVERSAL SERTIFIKASYON VE GÖZETIM HIZM. TIC. LTD. ŞTİ. Keyap Ticaret Merkezi, Necip Fazıl Bulvan, E2 Blok, No:44/84 Y. Dudullu - Ümraniye - ISTANBUL T:+90 216 455 80 80 F:+90 216 455 80 08 info@universalcert.com

Rev.00



1.1. Tasarım Prensipleri / Design principles

1.1.2. Koruma Düzeyleri ve Sınıfları / Levels and classes of protection

1.1.2.2. Farklı Risk Düzevleri İçin Uygun Koruma Sınıfları

KKD'nin tasarımında, aynı risk faktörünün farklı düzeylerinin ayırt edilebilmesi gibi öngörülebilir kullanım koşullarının farklılık gösterdiği durumlarda uygun koruma sınıflandırmaları dikkate alınmalıdır. / Where differing foreseeable conditions of use are such that several levels of the same risk can be distinguished, appropriate classes of protection must be taken into account in the design of the PPE.

1.3 Rahatlık ve Etkinlik / Comfort and efficiency

1.3.2 Hafiflik ve Dayanıklılık / Lightness and design strength

KKD, dayanıklılık ve işlevselliğini azaltmayacak şekilde olabildiğince hafif imal edilmelidir. *IPPE must be as light as possible without prejudicing design strength and efficiency.*

KKD, bu Ek'in 3. maddesinde belirtilen risklere karşı yeterli korunma sağlayabilmek için yerine getirilmesi şart olan ve belirli riskler için ilave gereksinimlerden ayrı olarak, öngörülen kullanım koşulları altındaki ortam koşullarının etkisine dayanabilmelidir. / Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use

1.4. İmalatçı Tarafından Verilecek Bilgiler / Information supplied by the manufacturer

İmalatçı, piyasaya sunduğu KKD ile birlikte aşağıdaki hususları içeren kullanım kılavuzunu da vermelidir: / The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- a) Imalatçının veya yetkili temsilcisinin isim ve adresi/ In addition to the name and addressof the manufacturer and or his authorized representative established in the Community
- b) Depolama, kullanım, temizlik, bakım, onarım ve dezenfekte etmeye ilişkin bilgiler (imalatçı tarafından önerilen temizlik, bakım ve enfeksiyondan arındırma maddeleri, kullanım kılavuzunda verilen talimata uygun olarak kullanıldığında kullanıcı veya KKD'ye zarar vermemelidir) / storage, use, cleaning, maintenance, servicing and disinfection. cleaning, maintenance or disinfectant protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- c) Söz konusu KKD'nin sağladığı korumanın sınıfını ya da seviyesini ölçmek için uygulanan teknik testlerde kaydedilen performans sonuçları/ performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in guestion;
- d) Söz konusu KKD'ye uygun aksesuarların ve yedek parçaların özellikleri *lsuitable PPE accessories and the characteristics of appropriate spare parts;*
- e) Farklı risk seviyeleri için uygun koruma sınıfları ve bunlara karşılık gelen kullanım limitleri/ the classes of protection appropriate to different levels of risk and the corresponding limits of use;
- f) KKD veya belirli parçalarının kullanma ömrü veya son kullanma tarihi / the obsolescence deadlineor period of obsolescence of PPEor certain of its components;
- g) Taşımaya uygun paketleme şekli / the type of packaging suitable for transport;
- h) İşaretlerin anlamı (2.12)/ the significance of any markings(see 2.12)
- i) Eger varsa, bu Yönetmeliğin 6. maddesinin son fikrasında belirtilen düzenlemelerin referansları/ where appropriate the references of the Directives applied inaccordance with Article5(6) (b);
- j) KKD'lerin tasarımını yapan onaylanmış kuruluşun unvanı, adresi ve kimlik numarası / the name, address and identification number of the notified body involved in the design stage of the PPE

Bu bilgiler, anlaşılır, kesin ve Türkçe olmalı veya diğer bir üye ülkede piyasaya arz ediliyorsa o üye ülkenin resmi dil veya dillerinde olmalıdır. / These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination

2. BAZI KKD TİPLERİ VEYA SINIFLARI İÇİN ORTAK İLAVE GEREKLİLİKLER /ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.12. Üzerinde Dolaylı veya Doğrudan Sağlık ve Güvenlikle İlgili Bir veya Birden Fazla Tanımlayıcı İşaret Taşıyan KKD'ler

/ PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

KKD üzerine yapıştırılmış, dolaylı ya da doğrudan sağlık ve güvenlik ile ilgili tanımlayıcı işaretler, vermek istediği mesaja uygun ikaz işaretleri (piktogramlar veya ideogramlar) şeklinde olmalı ve KKD' nin öngörülen kullanma ömrü boyunca anlaşılabilir halini tam olarak korumalıdır. Ayrıca, herhangi bir yanlış anlamaya meydan vermeyecek şekilde bu işaretler anlaşılır, kesin ve tam olmalıdır. Özellikle, bu işaretler üzerinde yazılı bir ifade veya kelime bulunuyorsa, bunların cihazın kullanılacağı ülkenin resmi dil veya dillerinde olmalıdır./*The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must rem ain perfectly legible throughout the foreseableuseful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation ; m particular, whyn such marks mcorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.*

KKD veya bir KKD elemanı gerekli işaretlerin tamamının veya bir kısmının konulamayacağı kadar küçükse, o zaman buna ait açıklayıcı bilgi, ambalaj üzerinde ve kullanım kılavuzunda bulunmalıdır. / If PPE (or a PPE component) is too small to allow al lor part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

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3. BELIRLI RISKLER İÇİN İLAVE GEREKSININER V LIN OFA. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR ABSRST I FICATION

3.10.2. Tehlikeli maddeler ve patojen organizmalara karşı koruma / Protection against cutaneous and ocular contact

Vücut yüzeyinin tamamını veya bir bölümünü tehlikeli maddeler ve karışımlar veya zararlı biyolojik ajanlarla temastan korumak amacıyla üretilen KKD'lerin koruyucu yüzeyleri öngörülen kullanım şartlarında, bu tür maddelerin kullanıcıya geçmesini veya sızmasını önleyebilecek özellikte olmalıdır. / PPE intended to prevent the surface contact of all or part of the body with substances and mixtures which are hazardous to health or with harmful biological agents must be capable of preventing the penetration or permeation of such substances and mixtures and agents through the protective integament under the foreseeable conditions of use for which the PPE is intended.

Bu amaçla, bu sınıf KKD'lerin yapıldığı malzemeler ve diğer elemanlar, gerektiğinde gün boyunca kullanılabilmesi için, mümkün olduğu kadar tam bir sızdırmazlık sağlayacak şekilde seçilmeli veya tasarlanmalı ve birleştirilmelidir. Sızdırmazlığın tam olarak sağlanamadığı durumlarda giyme süresi kısıtlanmalıdır. *1 To this end, the constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure, as far as possible, complete leak-tightness, which will allow where necessary prolonged daily use or, failing this, limited leak-tightness necessitating a restriction of the period of wear.*

Yapılarından ve öngörülen kullanım koşullarından dolayı, yüksek sızma gücüne sahip belirli tehlikeli maddeler ve karışımlar veya zararlı biyolojik ajanların söz konusu olduğu ve bunların KKD'lerin sağladığı koruma süresini sınırladığı durumlarda, KKD'ler sınıflandırma amacıyla etkinlik esasına dayalı standart testlere tabi tutulmalıdır. Testlerde belirtilen özelliklere uygun olduğu kabul edilen KKD'lerde, özellikle testlerde kullanılan maddelerin isimlerini veya bunun yapılamaması halinde, kodlarını ve bunlara karşılık gelen standart koruma sürelerini gösteren bilgiler bulunmalıdır. Kullanım kılavuzunda, özellikle, kodların bir açıklaması, gerekiyorsa standart testlerin detaylı bir tanımlaması ve öngörülen değişik kullanım koşullarında müsaade edilen maksimum kullanıma süresini belirlemek için gerekli bütün bilgiler de bulunmalıdır. / Where, hy virtue of their nature and the foreseeable conditions of their use, certain substances and mixtures which are hazardous to health or harmful biological agents possess high penetrative power which limits the duration of the protection provided by the PPE in question, the latter must be subjected to standard tests with a view to their classification on the basis of their performance. PPE which is considered to be in conformity with the test specifications must bear a marking indicating, in particular, the names or, in the absence of the names, the codes of the codes of the corresponding standard tests and all appropriate information for the determination of the maximum permissible period of wear under the different foreseeable conditions of use. Yukarıdaki temel gereklere uyum EN 14126/AC:2004 standardının aşağıdaki maddeleri ile teyit edilmelidir. / The conformance to the essential requirements mentioned above shall be approved by one of the following clauses of EN 14126 AC:2004

EN 14126/AC:2004 Standardının ve atıf yaptığı diğer standardların, 2016/425/EU Direktifine Karşılık Gelen Maddelerinin Teknik Değerlendirmesi

		BEDEN	GÖĞÜS KAFESİ	YÜKSEKLİK				
		S	84-92 cm	164-170 cm				
		M	92-100 cm	167-176 cm				
ladde /Article		L	100-108 cm	174-181 cm				
		XL	108-115 cm	179-187 cm				
		XXL	115-124 cm	186-194 cm				
		XXXL	124-132 cm	194-200 cm				
	EN 14325 Sta	ndardına Göre N	Aalzemenin Performans	Sınıflandırması				
ladde <i>lArticle</i> .4	Aşınma direnci : Çevrim sayısı S	unif 3 (>500)						
fadde <i>lArticle</i> 5	Bükülme çatlamasına direnç : -			ŝ				
fadde <i>lArticle</i> .6	–30 °C'ta bükülme çatlamasına direnç : -							
Aadde <i>lArticle</i> .7	Yamuk biçimde yırtılmaya direnç : Sınıf 2 (> 20 N)							
1adde <i> Article</i> .8	Patlama direnci : -							
1adde <i>lArticle</i> .9	Cekme mukavemeti : Sınıf 2 (> 60 N)							
Aadde <i>lArticle</i> .10	Delinme direnci : Smif 2 (> 10 N)							
Aadde <i>lArticle</i> .11	Kimyasal maddelerin geçişine direnç : -							
	Sıvıları İtebilme :							
ladde / Article	 Sinif 3 (H₂SO₄ > %95)						
.12	 Smif 3 (NaOH > %95)						
	• Sinif 2 (o-Ksilen > %	20) X(22)						
	• Sinit 2 (Butan-1-ol >	%90)						
	 Sivilarin Nutuziyetin Sivilarin (U.SO) < 0/11 	e Direnç :						
Madde IArticle	• $Sim 5 (H_2SO_4 < 701)$ • $Sim f 3 (N_2O_4 < 701)$							
.13	• Smith 3 (INAUTI ≤ 701) • Smith 2 (or Keilen ≤ 920	5)						
	• Smit 2 (0-Kshch < 70.	2/10)						
Aadde <i>lArticle</i> .14	Tutuşmaya Direnç : Koruyucu gi etmediği gözlemlenmiştir.	yecek malzemesi k	endi kendine sönmüş ve al	evden çekildikten sonra 5 sn'den dah	a fazla yanmaya devam			
fadde IArticle	Aleve Direnç : Sınıf I - Koruyucu	giyecek malzemes	inde delikler veya damlacı	klar oluşturmadığı, kendi kendine sör	ımüş ve alevden çekildikt			
.15	sonra 5 sn'den daha fazla yanmaya	devam etmediği g	özlemlenmiştir.	11	ILR WA			
	12 12 2012 Day	0.0		N				



EN 14126/AC:2004 Standardmin Gereklerine Uyum				
Madde / <i>Article</i> 4.1.2	EN 14325 Standardına göre Malzemenin Performans Sınıflandırması yukarıda gösterilmiştir.			
Madde <i>Article</i> 4.1.4.1	Hidrostatik Basınç Altında Bulaşık Sıvıların Nüfuzuna Direnç : Sınıf 3 (3,50 kPa)			
Madde <i>Article</i> 4.1.4.2	Bulaşık sıvılar ihtiva eden maddelerle mekanik temas sebebiyle patojen organizmaların nüfuzuna direnç : Sınıf 2 (15< t ≤ 30 dk)			
Madde <i>Article</i> 4.1.4.3	Bulaşık Sıvı Aerosollerin Nüfuzuna Direnç : Sınıf l ($1 \le \log \le 3$)			
Madde /Article 4.1.4.4	Bulaşık Katı Parçacıkların Nüfuzuna Direnç : Sınıf 2 (1 <log <math="" cfu="">\leq 2)</log>			
Madde <i>lArticle</i> 4.2	Dikişler, Birleştirmeler ve Bağlantılar İçin Performans Kuralları : Smif 4 (> 125)			
Madde <i>lArticle</i> 4.3	Tam giysi takımları için kurallar : Tip 5 – Tip 6			
Madde <i>lArticle</i> 5	İşaretleme : Ürün ambalajı üzerinde gerekli işaretlemeler mevcuttur.			
Madde <i>l.Article</i> 6	İmalatçı Tarafından Sağlanacak Bilgi : İmalatçı ürün ile birlikte kullanım klavuzu vercektir.			

EN 1149-5:2018 STANDARDININ AVRUPA BİRLİĞİ DİREKTİFİ 2016/425/EU HÜKÜMLERİ İLE İLİŞKİLİ OLAN MADDELERİ

1. TÜM KKD'LERDE BULUNMASI GEREKEN TEMEL GEREKLİLİKLER / GENERAL REQUIREMENTS APPLICABLE TO ALL PPE

1.4. İmalatçı Tarafından Verilecek Bilgiler / Information supplied by the manufacturer

İmalatçı, piyasaya sunduğu KKD ile birlikte aşağıdaki hususları içeren kullanım kılavuzunu da vermelidir: / The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

- k) Imalatçının veya yetkili temsilcisinin isim ve adresi/ In addition to the name and addressof the manufacturer and or his authorized representative established in the Community
- I) Depolama, kullanım, temizlik, bakım, onarım ve dezenfekte etmeye ilişkin bilgiler (imalatçı tarafından önerilen temizlik, bakım ve enfeksiyondan arındırma maddeleri, kullanım kılavuzunda verilen talimata uygun olarak kullanıldığında kullanıcı veya KKD'ye zarar vermemelidir) / storage, use, cleaning, maintenance, servicing and disinfection, cleaning, maintenance or disinfectant protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;
- m) Söz konusu KKD'nin sağladığı korumanın sınıfını ya da seviyesini ölçmek için uygulanan teknik testlerde kaydedilen performans sonuçları/ performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in guestion:
- n) Söz konusu KKD'ye uygun aksesuarların ve yedek parçaların özellikleri /suitable PPE accessories and the characteristics of appropriate spare parts;
- Farklı risk seviyeleri için uygun koruma sınıfları ve bunlara karşılık gelen kullanım limitleri/ the classes of protection appropriate to different levels of risk and the corresponding limits of use;
- p) KKD veya belirli parçalarının kullanma ömrü veya son kullanma tarihi / the obsolescence deadlineor period of obsolescence of PPEor certain of its components;
- q) Taşımaya uygun paketleme şekli / the type of packaging suitable for transport;
- r) İşaretlerin anlamı (2.12)/ the significance of any markings(see 2.12)
- Eger varsa, bu Yönetmeliğin 6. maddesinin son fikrasında belirtilen düzenlemelerin referansları/ where appropriate the references of the Directives applied inaccordance with Article5(6) (b);
- t) KKD'lerin tasarımını yapan onaylanmış kuruluşun unvanı, adresi ve kimlik numarası / the name, address and identification number of the notified body involved in the design stage of the PPE

Bu bilgiler, anlaşılır, kesin ve Türkçe olmalı veya diğer bir üye ülkede piyasaya arz ediliyorsa o üye ülkenin resmi dil veya dillerinde olmalıdır. / These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination.



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2. BAZI KKD TIPLERI VEYA SINIFLARI İÇİN ORTAK İLAVE GEREKLİLİKLER / ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.6. Muhtemel Patlavici Ortamlarda Kullanilan KKD'ler / PPE for use in potentially explosive atmospheres

Muhtemel patlayıcı ortamlarda kullanılacak KKD'ler, patlayıcı karışımların tutuşmasına neden olabilecek elektrik, statik elektrik, çarpma sonucu oluşan ark veya kıvılcım oluşturmayacak nitelikte tasarlanarak imal edilmelidir. *I PPE intended for use in potentially explosive atmospheres must be designed and manufactured in such a way that it cannot be the source of an electric, electrostatic or impact-induced arc or spark likely to cause an explosive mixture to ignite.*

2.12. Üzerinde Dolaylı veya Doğrudan Sağlık ve Güvenlikle İlgili Bir veya Birden Fazla Tanımlayıcı İşaret Taşıyan KKD'ler

IPPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

KKD üzerine yapıştırılmış, dolaylı ya da doğrudan sağlık ve güvenlik ile ilgili tanımlayıcı işaretler, vermek istediği mesaja uygun ikaz işaretleri (piktogramlar veya ideogramlar) şeklinde olmalı ve KKD' nin öngörülen kullanma ömrü boyunca anlaşılabilir halini tam olarak korumalıdır. Ayrıca, herhangi bir yanlış anlamaya meydan vermeyecek şekilde bu işaretler anlaşılır, kesin ve tam olmalıdır. Özellikle, bu işaretler üzerinde yazılı bir ifade veya kelime bulunuyorsa, bunların cihazın kullanılacağı ülkenin resmi dil veya dillerinde olmalıdır. *The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must remain perfectly legible throughout the foreseeableuseful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation ; un particular, whyn such marks incorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.*

KKD veya bir KKD elemanı gerekli işaretlerin tamamının veya bir kısmının konulamayacağı kadar küçükse, o zaman buna ait açıklayıcı bilgi, ambalaj üzerinde ve kullanım kılavuzunda bulunmalıdır. / If PPE (or a PPE component) is too small to allow al lor part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes. Yukarıdaki temel gereklere uyum EN 1149-5:2018 standardının aşağıdaki maddeleri ile teyit edilmelidir. / The conformance to the essential requirements mentioned above shall be approved by one of the following clauses of EN 1149-5:2018

EN 1149-5:2018 Standardının ve atıf yaptığı diğer standardların, 2016/425/EU Direktifine Karşılık Gelen Maddelerinin Teknik Değerlendirmesi

EN 1149-5:2018 Standardinin Gereklerine Uyum

Madde /Article 4.2.1			EN H	49-3:2004	fük Zayıflaması		
	Numune	Sonuçlar				Gereksinim	
			Ko	ruma Faktor	rü (S)	Ortalama	Koruma Faktorü ≥ 0,2 ve/veya
		Test	0,22	0,18	0,29	0,230	
		Numunesi	Ya	nlama Süres	si t50	Ortalama	
			1,75	1.86	1,73	1,78	Tamana Suresi 245

EN ISO 13982-1:2004/A1:2010 STANDARDININ AVRUPA BİRLİĞİ DİREKTİFİ 2016/425/EU HÜKÜMLERİ İLE İLİŞKİLİ OLAN MADDELERİ

1. TÜM KKD'LERDE BULUNMASI GEREKEN TEMEL GEREKLİLİKLER/GENERAL REQUIREMENTS APPLICABLE TO ALL PPE 1.1. Tasarım Prensipleri / Design principles

1.1.1. Ergonomi / Ergonomics

KKD, tehlike içeren iş yapılırken, öngörülebilen koşullarda ve amaçlanan doğrultuda kullanımı sırasında kullanıcıyı mümkün olan en yüksek düzeyde koruyacak şekilde tasarlanarak imal edilmelidir./ PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest prossible level.

1.1.2. Koruma Düzeyleri ve Sınıfları / Levels and classes of protection

1.1.2.1. Mümkün Olan En Üst Koruma Düzeyi / Highest level of protection possible

Tasarım sırasında göz önüne alınacak en uygun koruma düzeyi, KKD kullanımından kaynaklanan riske maruz kalındığında veya normal koşullarda işin yürütülmesi sırasında KKD' nin etkinliğinin azalmaya başladığı noktadır. / The optimum level of protection to be taken into account in the design is that beyond which the constraints by the wearing of the PPE would prevent its effective use during the period of exposure to the risk or normal performance of the activity.

1.2. KKD'nin Kendisinin Tehlikeye Yol Açmaması / Innocuousness of PPE

1.2.1. KKD'nin Yapısından Kaynaklanan ve Rahatsızlık Veren Faktörlerin ve Diğer Risklerin Bulunmaması / Absence of risks and other inherent musance factors

KKD, öngörülebilir koşullarda kullanımı sırasında tehlikelere ve yapısından kaynaklanabilen rahatsızlık verici diğer faktörlere neden olmayacak şekilde tasarlanarak imal edilmelidir. / PPE must be so designed and manufactured as to preclude risks and other musance factors under fore seeable conditions of use.

1.2.1.1. Uygun Malzemeden İmali / Suitable constituent materials

KKD malzemesi ve parçaları, bozulma sonucu ortaya çıkan maddeler de dåhil olmak üzere, kullanıcının sağlık ve güvenliğini olumsuz yönde etkilememelidir. / The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users.

1.2.1.2. KKD'nin Kullanıcıya Temas Eden Yüzeyinin Uygunluğu / Satisfactory surface condition of all PPE parts in contact with the user Giyildiğinde veya takıldığında kullanıcıya temas eden veya etmesi muhtemel herhangi bir KKD elemanı, tahriş ya da yaralanmalara neden olabilecek

derecede sert olmamalı, keskin kenarlar ve çıkıntılar bulundurmamalıdır. 1 Any part of the PPE that is in contact or is liable to come into contact with the user when the PPE is worn must be free of rough surfaces, sharp edges, sharp points and the like which could cause excessive irritation or injuries.

1.2.1.3. KKD'nin Kullanıcıyı Engellememesi / Maximum permessible user impediment

KKD'nin vücudun duruş şekline ve hareket etmesine neden olduğu kısıtlamalar ile duyu organlarında yol açabileceği hassasiyet kaybı en aza indirilmeli ve KKD, kullanıcı veya diğer kişiler için tehlikeli olabilecek hareketlere neden olmamalıdır. /*Any inpediment caused by PPE to movements to be made, postures* to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

1.3. Rahatlık ve Etkinlik / Comfort and efficiency

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1.3.1. KKD'nin Kullanıcının Vücut Yapısına Uygunluğu / Adaptation of PPE to user morph

KKD, öngörülebilir kullanımı sırasında yapılacak hareketter RVE Vütuddin Alufuş çekilleri ile ortam şartları göz önüne alınarak kullanıcı üzerinde doğru pozisyonda kolayca durmasını sağlayacak ve öngörülen kullanım süresinde yerinde kalacak şekilde tasarlanarak üretilmelidir. Bu amaçla KKD'nin ayarlanabilir ve eklenebilir sistemler yardımıyla veya farklı beden ölçülerinde üretilerek kullanının vücut yapısına uygunluğu sağlanarak en etkin şekilde kullanılabilmesi sağlanmalıdır. / PPE must be designed and manufactured in such a way as to facilitate its correct positioning on the user and to remain in place

for the foreseeable period of use, bearing in mind ambient factors, the actions to be carried out and the postures to be adopted. For this purpose, it must be possible to adapt the PPE to fit the morphology of the user by all appropriate means, such as adequate adjustment and attachment systems or the provision of an adequate range of sizes.

1.3.2. Hafiflik ve Dayanıklılık / Lightness and design strength

KKD, dayantklilk ve işlevselliğini azaltmayacak şekilde olabildiğince hafif imal edilmelidir. *IPPE must be as light as possible without prejudicing design strength and efficiency.*

KKD, bu Ek'in 3. maddesinde belirtilen risklere karşı yeterli korunma sağlayabilmek için yerine getirilmesi şart olan ve belirli riskler için ilave gereksinimlerden ayrı olarak, öngörülen kullanım koşulları altındaki ortam koşullarının etkisine dayanabilmelidir. /Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3). PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use.

1.3.3. Aynı Anda Kullanılmak Üzere Tasarlanmış Farklı KKD Tipleri veya Sınıflarının Uyumu / Compatibility of different types of PPE intended for simultaneous use

Aynı imalatçı, aynı anda birden fazla risk söz konusu olduğunda bu risklere karşı vücudun birbirine yakın kısımlarının eş zamanlı korunmasını sağlamak için farklı tip ve sınıflarda KKD modellerini piyasaya sunarsa, bunlar birbiriyle uyumlu olmalıdır. / If the same manufacturer places on the market several PPE models of different types in order to ensure the simultaneous protection of adjacent parts of the body, they must be compatible.

1.4. İmalatçı Tarafından Verilecek Bilgiler / Information supplied by the manufacturer

İmalatçı, piyasaya sunduğu KKD ile birlikte aşağıdaki hususları içeren kullanım kılavuzunu da vermelidir: / The notes that must be drawn up by the former and supplied when PPE is placed on the market must contain all relevant information on:

a) Imalatçının veya yetkili temsilcisinin isim ve adresi/ In addition to the name and addressof the manufacturer and or his authorized representative established in the Community

b) Depolama, kullanım, temizlik, bakım, onarım ve dezenfekte etmeye ilişkin bilgiler (imalatçı tarafından önerilen temizlik, bakım ve enfeksiyondan arındırma maddeleri, kullanım kılavuzunda verilen talimata uygun olarak kullanıldığında kullanıcı veya KKD'ye zarar vermemelidir) / storage, use, cleaning, maintenance, servicing and disinfection. cleaning, maintenance or disinfectant protection recommended by manufacturers must have no adverse effect on PPE or users when applied in accordance with the relevant instructions;

c) Söz konusu KKD'nin sağladığı korumanın sınıfını ya da seviyesini ölçmek için uygulanan teknik testlerde kaydedilen performans sonuçları/ performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in guestion;

d) Söz konusu KKD'ye uygun aksesuarların ve yedek parçaların özellikleri *Isnitable PPE accessories and the characteristics of appropriate spare parts;* e) Farklı risk seviyeleri için uygun koruma sınıfları ve bunlara karşılık gelen kullanım limitleri*/ the classes of protection appropriate to different levels* of risk and the corresponding limits of use;

f) KKD veya belirli parçalarının kullanma ömrü veya son kullanma tarihi / the obsolescence deadlineor period of obsolescence of PPEor certain of its components:

g) Taşımaya uygun paketleme şekli / the type of packaging suitable for transport;

h) İşaretlerin anlamı (2.12)/ the significance of any markings(see 2.12)

i) Eğer varsa, bu Yönetmeliğin 6. maddesinin son fikrasında belirtilen düzenlemelerin referansları/ where appropriate the references of the Directives applied inaccordance with Article5(6) (h):

j) KKD'lerin tasarımını yapan onaylanmış kuruluşun unvanı, adresi ve kimlik numarası / the name, address and identification number of the notified body involved in the design stage of the PPE

Bu bilgiler, anlaşılır, kesin ve Türkçe olmalı veya diğer bir üye ülkede piyasaya arz ediliyorsa o üye ülkenin resmi dil veya dillerinde olmalıdır. / These notes, which must be precise and comprehensible, must be provided at least in the official language(s) of the member state of destination.

2. BAZI KKD TIPLERI VEYA SINIFLARI İÇİN ORTAK İLAVE GEREKLİLİKLER /ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.12. Üzerinde Dolaylı veya Doğrudan Sağlık ve Güvenlikle İlgili Bir veya Birden Fazla Tanımlayıcı İşaret Taşıyan KKD'ler

/PPE bearing one or more identification or recognition marks directly or indirectly relating to health and safety

KKD üzerine yapıştırılmış, dolaylı ya da doğrudan sağlık ve güvenlik ile ilgili tanımlayıcı işaretler, vermek istediği mesaja uygun ikaz işaretleri (piktogramlar veya ideogramlar) şeklinde olmalı ve KKD' nin öngörülen kullanıma ömrü boyunca anlaşılabilir halini tam olarak korumalıdır. Ayrıca, herhangi bir yanlış anlamaya meydan vermeyecek şekilde bu işaretler anlaşılır, kesin ve tam olmalıdır. Özellikle, bu işaretler üzerinde yazılı bir ifade veya kelime bulunuyorsa, bunların cihazın kullanılacağı ülkenin resmi dil veya dillerinde olmalıdır. *The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must remain perfectly legible throughout the foreseeableuseful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation ; m particular, whyn such marks mcorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used. KKD veya bir KKD elemanı gerekli işaretlerin tamanınını veya bir kısmının konulamayacağı kadar küçükse, o zaman buna ait açıklayıcı bilgi, ambalaj*

üzerinde ve kullanım kılavuzunda bulunmalıdır. / If PPE (or a PPE component) is too small to allow al lor part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

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3. BELİRLİ RİSKLER İÇİN İLAVE GEREKSİNİMLER

ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

3.10.2. Tehlikeli maddeler ve patojen organizmalara karşı koruma / Protection against cutaneous and ocular contact

Vücut yüzeyinin tamamını veya bir bölümünü tehlikeli maddeler ve karışımlar veya zararlı biyolojik ajanlarla temastan korumak amacıyla üretilen KKD'lerin koruyucu yüzeyleri öngörülen kullanım şartlarında, bu tür maddelerin kullanıcıya geçmesini veya sızmasını önleyebilecek özellikte olmalıdır. / PPE intended to prevent the surface contact of all or part of the body with substances and mixtures which are hazardous to health or with harmful biological agents must be capable of preventing the penetration or permeation of such substances and mixtures and agents through the protective integument under the foreseeable conditions of use for which the PPE is intended.

Bu amaçla, bu sınıf KKD'lerin yapıldığı malzemeler ve diğer elemanlar, gerektiğinde gün boyunca kullanılabilmesi için, mümkün olduğu kadar tam bir sızdırmazlık sağlayacak şekilde seçilmeli veya tasarlanmalı ve birleştirilmelidir. Sızdırmazlığın tam olarak sağlanamadığı durumlarda giyme süresi kısıtlanmalıdır. / To this end, the constituent materials and other components of those types of PPE must he chosen or designed and incorporated so as to ensure, as far as possible, complete leak-tightness, which will allow where necessary prolonged daily use or, failing this, limited leak-tightness necessitating a restriction of the period of wear.

Yapılarından ve öngörülen kullanım koşullarından dolayı, yüksek sızma gücüne sahip belirli tehlikeli maddeler ve karışımlar veya zararlı biyolojik ajanların söz konusu olduğu ve bunların KKD'lerin sağladığı koruma süresini sınırladığı durumlarda, KKD'ler sınıflandırma amacıyla etkinlik esasına dayalı standart testlere tabi tutulmalıdır. Testlerde belirtilen özelliklere uygun olduğu kabul edilen KKD'lerde, özellikle testlerde kullanılan maddelerin isimlerini veya bunun yapılamaması halinde, kodlarını ve bunlara karşılık gelen standart koruma sürelerini gösteren bilgiler bulunmalıdır. Kullanım kılavuzunda, özellikle, kodların bir açıklaması, gerekiyorsa standart testlerin detaylı bir tanımlaması ve öngörülen değişik kullanım koşullarında müsaade edilen maksimum kullanıma süresini belirlemek için gerekli bütün bilgiler de bulunmalıdır. / Where, by virtue of their nature and the foreseeable conditions of their use, certain substances and mixtures which are hazardous to health or harmfil biological agents possess high penetrative power which limits the duration of the protection provided by the PPE in question, the latter must be subjected to standard tests with a view to their classification on the basis of their performance. PPE which is considered to be in conformity with the test specifications must be ar a marking indicating, in particular, the names or, in the absence of the names, the codes of the substances used in the tests and the corresponding standard period of protection. The manufacturer's instructions must also contain, in particular, an explanation of the different foreseeable conditions of use.

EN ISO 13982-1:2004/A1:2010 Standardının ve atıf yaptığı diğer standardların, 2016/425/EU Direktifine Karşılık Gelen Maddelerinin Teknik Değerlendirmesi

EN 14325:2018 (Malzeme)									
Madde <i>lArticle</i> 4.4	Aşınma direnci : Çevrim sayısı Sını	Aşınma direnci : Çevrim sayısı Sınıf 3 (>500)							
Madde /Article 4.5	Bükme çatlama direnci : -								
Madde <i>lArticle</i> 4.7	Yamuk yırtılma direnci : Sınıf 2 (>)	Yamuk yırtılma direnci : Smif 2 (> 20 N)							
Madde /Article 4.10	Delinme direnci : Smif 2 (> 10 N)	Delinme direnci : Simf 2 (> 10 N)							
	EN ISO 13982-1:200	4/A1:2010 Standard	dının gerekler	ine uyum					
	Katı Parçacıkların Aerosoller	inin İçe Doğru Sızı	intisi : L _{jmn,82}	_{2/90} ≤% 30					
	Pozisyon	Diz	Bel	Göğüs Kafesi	Ortalama				
	Ayakta	1,359	1,469	1,778	1,535				
	Yürüme	1,841	1,719	2,137	1,899				
	Çömelme Hareketi	14,549	15,102	14,245	14,632				
	Ortalama	5,916	6,097	6,053	6,022				
Madde <i>lArticle</i> 4.3.2	Elbise Başına Toplam İçe Doğ	ru Sizinti : $L_{S,8/10}$ Denekler Denek 1 Denek 2 Denek 3 Denek 4 Denek 5 Ortalama	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			÷			
		Ortalama	6,	022					



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EN 13034:2005+A1:2009 STANDARDININ AVRUPA BİRLİĞİ DİREKTİFİ 2016/425/EU HÜKÜMLERİ İLE İLİŞKİLİ OLAN MADDELERİ

1. TÜM KKD'LERDE BULUNMASI GEREKEN TEMEL GEREKLİLİKLER/GENERAL REQUIREMENTS APPLICABLE TO ALL PPE

1.1. Tasarım Prensipleri / Design principles

1.1.1. Ergonomi/Ergonomics

KKD, tehlike içeren iş yapılırken, öngörülebilen koşullarda ve amaçlanan doğrultuda kullanımı sırasında kullanıcıyı mümkün olan en yüksek düzeyde koruyacak şekilde tasarlanarak imal edilmelidir. *PPE must be so designed and manufactured that in the foreseeable conditions of use for which it is intended the user can perform the risk related activity normally whilst enjoying appropriate protection of the highest prossible level.*

1.2. KKD'nin Kendisinin Tehlikeye Yol Açmaması / Innocuousness of PPE

1.2.1. KKD'nin Yapısından Kaynaklanan ve Rahatsızlık Veren Faktörlerin ve Diğer Risklerin Bulunmaması / Absence of risks and other inherent musance factors

KKD, öngörülebilir koşullarda kullanımı sırasında tehlikelere ve yapısından kaynaklanabilen rahatsızlık verici diğer faktörlere neden olmayacak şekilde tasarlanarak imal edilmelidir. PPE must be so designed and manufactured as to preclude risks and other nuisance factors under fore seeable conditions of use.

1.2.1.1. Uygun Malzemeden İmali / Suitable constituent materials

KKD malzemesi ve parçaları, bozulma sonucu ortaya çıkan maddeler de dâhil olmak üzere, kullanıcının sağlık ve güvenliğini olumsuz yönde etkilememelidir. / The materials of which the PPE is made, including any of their possible decomposition products, must not adversely affect the health or safety of users. 1.2.1.3. KKD'nin Kullanıcıyı Engellememesi / Maximum permessible user impediment

KKD'nin vücudun duruş şekline ve hareket etmesine neden olduğu kısıtlamalar ile duyu organlarında yol açabileceği hassasiyet kaybı en aza indirilmeli ve KKD, kullanıcı veya diğer kişiler için tehlikeli olabilecek hareketlere neden olmamalıdır. /Any inpediment caused by PPE to movements to be made, postures to be adopted and sensory perception must be minimized; nor must PPE cause movements which endanger the user or other persons.

1.3. Rahatlık ve Etkinlik / Comfort and efficiency

1.3.2.Hafiflik ve Dayanıklılık / Lightness and design strength

KKD, dayanıklılık ve işlevselliğini azaltmayacak şekilde olabildiğince hafif imal edilmelidir. IPPE must be as light as possible without prejudicing design strength and efficiency.

KKD, bu Ek'in 3. maddesinde belirtilen risklere karşı yeterli korunma sağlayabilmek için yerine getirilmesi şart olan ve belirli riskler için ilave gereksinimlerden ayrı olarak, öngörülen kullanım koşulları altındaki ortam koşullarının etkisine dayanabilmelidir. Apart from the specific additional requirements which they must satisfy in order to provide adequate protection against the risks in question (see 3), PPE must be capable of withstanding the effects of ambient phenomena inherent under the foreseeable conditions of use.

1.3.3. Aynı Anda Kullanılmak Üzere Tasarlanmış Farklı KKD Tipleri veya Sınıflarının Uyumu / Compatibility of different types of PPE intended for simultaneous use

Aynı imalatçı, aynı anda birden fazla risk söz konusu olduğunda bu risklere karşı vücudun birbirine yakın kısımlarının eş zamanlı korunmasını sağlamak için farklı tip ve sınıflarda KKD modellerini piyasaya sunarsa, bunlar birbiriyle uyumlu olmalıdır. / If the same manufacturer places on the market several PPE models of different types in order to ensure the simultaneous protection of adjacent parts of the body, they must be compatible.

2. BAZI KKD TIPLERI VEYA SINIFLARI İÇİN ORTAK İLAVE GEREKLİLİKLER /ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.4. KKD'nin Kullanım Ömrü ve Kullanımdan Dolayı Özelliğini Kaybetmesi / PPE subject to ageing

Yeni bir KKD'nin işlevinin zamana bağlı olarak önemli oranda azaldığı biliniyorsa, üretim tarihi ve mümkünse son kullanma tarihi her bir KKD parçasının ve değişebilen bölümlerinin üzerine, hiçbir yanlış anlamaya meydan vermeyecek şekilde, açıkça belirtilmeli ve bu bilgiler KKD'nin ambalajı üzerinde de bulunmalıdır. / If it is known that the design performance of new PPE may be significantly affected by ageing, the month and year of manufacture and or. if possible, the month and year of obsolescence must be indelibly and unambiguously marked on each item of PPE placed on the market and on its packaging.

KKD'nin kullanımından dolayı özelliğini ne sürede kaybedeceğinin öngörülemediği durumda imalatçı, tüketici ve nihai kullanıcıya kullanım kılavuzunda KKD modelinin kalite seviyesi ve depolanması, kullanımı, temizlenmesi, hizmete sunumu ve bakımına ilişkin etken koşulları da dikkate alarak makul bir kullanım ömrünü ay ve yıl olarak belirtmelidir. / If the manufacturer is unable to give an undertaking with regard to the useful life of the PPE, his instructions must provide all the information necessary to enable the purchaser or user to establish a reasonable obsolescence month and year, taking into account the quality level of the model and the effective conditions of storage, use, cleaning, servicing and maintenance.

KKD'nin temizlenmesinde periyodik olarak kullanılan ve imalatçının tavsiye ettiği bir temizleme işlemi sonucunda oluşan yıpranmalardan kaynaklanan, KKD'nin performansında hızlı şekilde azalmaya sebep olan koşullar; mümkün olduğu durumda, piyasaya arz edilen her bir KKD'nin üzerine kullanım ömrünün tamamlanmasından önce yapılabilecek azami temizleme sayısını içerecek şekilde gerekli işaretleme iliştirilmelidir. Bunun mümkün olmadığı durumda bu bilgiler kullanım kılavuzunda verilmelidir. / Where appreciable and rapid deterioration in PPE performance is likely to be caused by ageing resulting from the periodic use of a cleaning process recommended by the manufacturer, the latter must, if possible, affix a marking to each item of PPE placed on the marking the maximum number of cleaning operations that may be carried out before the equipment needs to be inspected or discarded. Where such a marking is not affixed, the manufacturer must give that information in his instructions.

2.12. Üzerinde Dolaylı veya Doğrudan Sağlık ve Güvenlikle İlgili Bir veya Birden Fazla Tanımlayıcı İşaret Taşıyan KKD'ler / PPE hearing one or more identification or recognition marks directly or indirectly relating to health and safety KKD üzerine yapıştırılmış, dolaylı ya da doğrudan sağlık ve güvenlik ile ilgili tanımlayıcı işaretler, vermek istediği mesaja uygun ikaz işaretleri

KKD üzerine yapıştırılmış, dolaylı ya da doğrudan sağlık ve güvenlik ile ilgili tanımlayıcı işaretler, vermek istediği mesaja uygun ikaz işaretleri (piktogramlar veya ideogramlar) şeklinde olmalı ve KKD' nin öngörülen kullanma ömrü boyunca anlaşılabilir halini tam olarak korumalıdır. Ayrıca, herhangi bir yanlış anlamaya meydan vermeyecek şekilde bu işaretler anlaşılır, kesin ve tam olmalıdır. Özellikle, bu işaretler üzerinde yazılı bir ifade veya kelime bulunuyorsa, bunların cihazın kullanılacağı ülkenin resmi dil veya dillerinde olmalıdır./ *The identification or recognition marks directly or indirectly relating to health and safety affixed to these types or classes of must preferably take the form of harmonized pictograms or ideograms and must rematin perfectly legible throughout the foreseeableuseful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation : m particular, whyn such marks moorporate words or sentences, the latter must appear in the official language(s) of the Member State where the equipment is to be used.*

KKD veya bir KKD elemani gerekli işaretlerin tamamının veya bir kısmının konulamayacağı kadar küçükse, o zaman buna ait açıklayıcı bilgi, ambalaj üzerinde ve kullanım kılavuzunda bulunmalıdır. / If PPE (or a PPE component) is too small to allow al lor part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.





3. BELIRLI RISKLER ICIN ILAVE GEREKSINIMLER THEFTOWAR TED OF MENTS SPECIFIC TO PARTICULAR RISKS

3.10.2. Tehlikeli maddeler ve patojen organizmalara karşı koruma / Protection against cutaneous and ocular contact

Vücut yüzeyinin tamamını veya bir bölümünü tehlikeli maddeler ve karışımlar veya zararlı biyolojik ajanlarla temastan korumak amacıyla üretilen KKD'lerin koruyucu yüzeyleri öngörülen kullanım şartlarında, bu tür maddelerin kullanıcıya geçmesini veya sızmasını önleyebilecek özellikte olmalıdır. *J PPE intended to prevent the surface contact of all or part of the body with substances and mixtures which are hazardous to health or with harmful biological agents must be capable of preventing the penetration or permeation of such substances and mixtures and agents through the protective integument under the foreseeable conditions of use for which the PPE is intended.*

Bu amaçla, bu sınıf KKD'lerin yapıldığı malzemeler ve diğer elemanlar, gerektiğinde gün boyunca kullanılabilmesi için, mümkün olduğu kadar tam bir sızdırmazlık sağlayacak şekilde seçilmeli veya tasarlanmalı ve birleştirilmelidir. Sızdırmazlığın tam olarak sağlanamadığı durumlarda giyme süresi kısıtlanmalıdır. *1 To this end, the constituent materials and other components of those types of PPE must be chosen or designed and incorporated so as to ensure, as far as possible, complete leak-tightness, which will allow where necessary prolonged daily use or, failing this, limited leak-tightness necessitating a restriction of the period of wear.*

Yapılarından ve öngörülen kullanım koşullarından dolayı, yüksek sızma gücüne sahip belirli tehlikeli maddeler ve karışımlar veya zararlı biyolojik ajanların söz konusu olduğu ve bunların KKD'lerin sağladığı koruma süresini sınırladığı durumlarda, KKD'ler sınıflandırma amacıyla etkinlik esasına dayalı standart testlere tabi tutulmalıdır. Testlerde belirtilen özelliklere uygun olduğu kabul edilen KKD'lerde, özellikle testlerde kullanılan maddelerin isimlerini veya bunun yapılanaması halinde, kodlarını ve bunlara karşılık gelen standart koruma sürelerini gösteren bilgiler bulunmalıdır. Kullanım kılavuzunda, özellikle, kodların bir açıklaması, gerekiyorsa standart testlerin detaylı bir tanımlaması ve öngörülen değişik kullanım koşullarında müsaade edilen maksimum kullanıma süresini belirlemek için gerekli bütün bilgiler de bulunmalıdır. / *Where, by virue of their nature and the foreseeable conditions of their ves, certain substances and mixtures which are huzardons to health or harınfil biological agents possess high penetrative power which limits the duration of the protection provided by the PPE in question, the latter must be subjected to standard tests with a view to their classification on the basis of their performance. PPE which is considered to be in conformity with the test specifications must bear a marking indicating, in particular, the names or, in the absence of the names, the codes of the substances used in the tests and the corresponding standard period of protection. The manufacturer's instructions must also contain, in particular, an explanation of the different foreseeable conditions of nue.*

EN 13034:2005+A1:2009 Standardının ve atıf yaptığı diğer standardların, 2016/425/EU Direktifine Karşılık Gelen Maddelerinin Teknik Değerlendirmesi

	EN 13034:2005+A1:2009 Standardmin gereklerine uyum
Madde /Article 4.2.1 - 5.2	Sıvıların nüfuziyetine direnç : Denek L (Göğüs : 107 cm, Yükseklik : 173 cm) deney numunesi ile 7 Hareket sonrası testler yapılmıştır. Püskürtme Basıncı : 3 bar Akış Hızı : (0,47 ± 0,05) L/dk Herhangi bir Koruyucu Giyecekte nüfuziyet gözlemmedi (iç giyecek parçasındaki toplam lekelenen bölge gözlemlenmedi)

HAZIRLAYAN	ONAYLAYAN
Mert TÜKENMEZ	Suat KAÇMAZ
KKD Uzman Yard.	Genel Müdür



UFR-383 12.12.2012 Rev.00

UNIVERSAL SERTIFIKASYON VE GÖZETIM HIZM. TIC. LTD. ŞTİ. Keyap Ticaret Merkezi, Necip Fazıl Bulvan, E2 Blok, No:44/84 Y. Dudullu - Ümnaniye - İSTANBUL T:+90 216 455 80 80 F:+90 216 455 80 08 info@universalcert.com





TEST REPORT

EN 14126:2003/AC:2004

Protective Clothing Against Infective Agents

Client:

ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ.

Address:

Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/TÜRKİYE

Sample:

ES6124 Model (White coverall with hood, frontal zipper covered by flap and adhesive tape in full length, elasticated cuff, hood, ankle, Fabric: 100% PP laminated with PE in size S, M, L, XL, XXL, XXL

Sample received on: April 20, 2020

Report Number:

NPT/20042012659/2

Elaborated by:

Ashley Madison

Place and date of issue:

Sheridan, WY May 05, 2020



Dr. Joseph Andrew, Ph.D. Head of Testing Laboratory

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test Standard: Name of tests: Reference no:

ISO 16603:2004 / EN 14126:2003/AC:2004- 4.1.4.1 Penetration by blood and body fluids. Synthetic blood method SBM-001

Test Purpose:

This test method is used to determinate of the resistance of protective clothing materials to penetration by blood and body fluids - test method using synthetic. This a test conducted using synthetic blood, which establishes at what pressure the liquid will pass through the test material.

Sampling method:

3 samples used in this test. Sample size: 75x75mm

Testing methods used:

Time and pressure control: Procedure D used. 5 minutes each samples pressure tested.

Test conditions:

Min. 24hr, temperature of (21 ± 5) °C and a relative humidity of air of (60 ± 10) %.

Test Equipment:

Penetration test cell.

Test Procedure:

ISO 16603 uses synthetic blood in a simple visual penetration test to estimate the pressure at which strike through is likely to occur in ISO 16604. Testing to ISO 16604 can then proceed at this pressure as a starting point.

Test results:

The test results obtained are given in the tables as follows

No. of Sample	Hydrostatic pressure	Result	
1.sample	0 kPa	Pass	
2.sample	0 kPa	Pass	
3.sample	0 kPa	Pass	
1.sample	1.75 kPa	Pass	
2.sample	1.75 kPa	Pass	
3.sample	1.75 kPa	Pass	
1.sample	3.5 kPa Pass		
2.sample	3.5 kPa	Pass	
3.sample	3.5 kPa	Pass	
1.sample	7 kPa	Fail	
2.sample	7 kPa	Fail	
3.sample	7 kPa Fail		

*Pass: The sample resist to penetration and synthetic blood doesn't pass through the fabric *Fail: The sample doesn't resist to penetration and synthetic blood pass through the fabric

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test Standard:	ISO 16604:2004 / EN 14126:2003/AC:2004- 4.1.4.1	
Name of tests: method	Penetration by blood and other body fluids-born pathogens. Phi-X174 bacteriophage	
Reference no:	PXB-001	

Test Purpose:

This test method is used to determinate of the resistance of protective clothing materials to penetration by blood and body fluids - test method using synthetic. This a test conducted using synthetic blood, which establishes at what pressure the liquid will pass through the test material.

Sampling method:

3 samples used in this test. Sample size: 75x75mm

Testing methods used:

Time and pressure control: Procedure D used. 5 minutes each samples pressure tested. Penetration survey method is Plaque-forming units (PFU) Name of test microorganism: Bacteriophage Phi-X 174

Test conditions:

Min. 24hr, temperature of (21 ± 5) °C and a relative humidity of air of (60 ± 10) %.

Test Equipment:

Penetration test cell.

Test Procedure:

It can be clearly seen that only the ISO 16604 test uses a contaminant – a bacteriophage (that is, a virus that parasitises a bacteria by infecting it, in this case Phi X174, selected, according to the standard, for its small size) – that is considerably smaller than the Coronavirus now filling the news. The other tests use bacteria considerably larger than Coronavirus. Thus, ISO 16604 is the only test providing a clear indication of effective resistance to penetration of that size of infectious agent.

It also describes a laboratory test method used to measure the resistance of the materials used in protective clothing to penetration by blood-borne pathogens using a surrogate microbe with continuous liquid contact. Protective clothing either passes or fails depending on whether viral penetration at a specific hydrostatic pressure can be detected.

Test results:

The test results obtained are given in the tables as follows

No. of Sample	Hydrostatic pressure	Result
1.sample	3.5 kPa	Pass
2.sample	3.5 kPa	Pass
3.sample	3.5 kPa	Pass
	Negative control(PE 10µm)	Pass
	Positive control	Fail

*Pass: The sample resist to penetration and synthetic blood doesn't pass through the fabric *Fail: The sample doesn't resist to penetration and synthetic blood pass through the fabric

Pre-test bacteriophage titer: 4.5E+008 PPU/ml Post-test bacteriophage titer: 4.5E+008 PPU/ml

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Test Standard: Name of tests: Reference no: EN ISO 22610:2006 / EN 14126:2003/AC:2004- 4.1.4.2 Wet Bacterial penetration WBP-001

Test Purpose:

This test method is designed to determine a material's resistance to penetration of bacteria in a liquid.

Sampling method:

Five pieces 25 cm x 25 cm or with a diameter of 25 cm shall be randomly cut under aseptic conditions from the material to be tested.

Testing methods used:

Testing time: 5 steps of 15 minutes S. aureus strain, ATCC 29213, is cultured 18 to 24 h at (36 ± 1) °C on tryptic soy agar. Culture medium: Nutrient agar Donor material: Polyurethanic membrane; 30 µm Distance from agar surface to brim of petri dish: 3mm Concentration of test suspension: 2.9×10^4 CFU/ml

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment:

The turntable consists of three parts:

- the motor compartment;
- · the agar plate holder;
- the finger holder arm.

Test Procedure:

The material to be tested is put on a lidless agar plate, on a rotating disk on top of the test specimen, a piece of donor material and a piece of approximately 10 µm thick HD polyethylene film of corresponding size is placed and materials are fixed using a double steel ring. An abrasion resistant finger is placed on top of the donor material to exert a specified force on the donor and test specimen to bring them into contact with the agar.

The finger is applied to the material by a pivoted lever moved by an excenter cam in such a way that it moves over the entire surface of the plate within 15 minutes. The assemblage of materials is stretched by the weight of the steel ring so that only a small area of the test specimen is brought into contact with the agar surface at a time. Due to the combined effect of rubbing and liquid migration bacteria may spread from the donor material through the test specimen down to the agar surface.

After 15 minutes of testing, the agar plate is replaced and the test repeated. Within five periods of 15 minutes each, tests are performed with the same pair of donor material and test specimen. In that way the test allows for an estimation of the penetration over time. Finally the bacterial contamination on the test specimen is estimated using the same technique. The agar plates are incubated to visualise the bacterial colonies, which are then enumerated. The results are processed in accumulated form to characterize the barrier capability and penetration kinetics of the material.

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test results:

The test results obtained are given in the tables as follows

	Interval (Min)	n° colonies 1st sample	n° colonies 2nd sample	n° colonies 3rd sample	n° colonies 4th sample	n° colonies 5th sample	average
Petri dish 1 (X1)	0-15	18	12	18	13	19	16
Petri dish 2 (X2)	15-30	23	15	22	20	18	19,6
Petri dish 3 (X3)	30-45	33	20	21	25	21	24
Petri dish 4 (X4)	45-60	33	17	26	28	23	25,4
Petri dish 5 (X5)	60-75	40	45	50	44	43	44,4
Petri dish 6 (ref. Z)		138	148	150	162	165	152,6
Т		285	257	287	292	289	282
b (EPP)		4,64	4,99	4,80	4,90	4,90	4,85

Legend

b (EPP) = Barrier index

b (EPP) = 6 - (CUM1+CUM2+CUM3+CUM4+CUM5)

where 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 T = Z + X1 + X2 + X3 + X4 + X5X1, X2, X3, X4, X5: number of colonies on the five plates from one of five samples

Z = number of colonies from the top side (plate nr. 6 reference)

Item	Unit	Result
Breakthrough time	min	15 <t<30< th=""></t<30<>

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Test Standard: Name of tests: Reference no:

ISO/DIS 22611:2003 / EN 14126:2003/AC:2004- 4.1.4.3 Penetration by biologically contaminated aerosols PBA-001

Test Purpose:

This test method is designed to determine a material's resistance to penetration by biologically contaminated aerosols.

Sampling method: Four pieces diameter 25 mm material tested.

Testing methods used:

S. aureus strain, ATCC 6538 Culture medium: Nutrient agar

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment:

Perspex box with collision atomizer

Test Procedure:

The barrier effect of the test material, against biologically contaminated aerosols, is measured using a bacterium solution of Staphylococcus Aureus, which is suspended in an aerosol and sprayed onto both an unprotected cellulose-nitrate membrane and one covered with the test barrier material (the pore size of the membrane is approx. 0.45 μ m). The test takes place within a sealed chamber.

Both membranes are subsequently analysed to establish their bacterial load by culturing on an agar plate. In order to classify the results, the penetration ratio (ratio of the load of the unprotected cellulose-nitrate membrane to the load of the membrane protected with the test material) is calculated and presented in log units.

Test results:

The test results obtained are given in the tables as follows

Microorganisms ext	ract to membrane Reference (Value	e A)
No. of Sample	Unit	Result
1.sample	CFU	530,0
2.sample	CFU	470,0
3.sample	CFU	540,0
4.sample	CFU	430,0
Average	CFU	492,5
Microorganisms ext	ract to membrane sample (Value B)
No. of Sample	Unit	Result
1.sample	CFU	43
2.sample	CFU	50
3.sample	CFU	42
4.sample	CFU	38
Average	CFU	46
Penetration ratio (A/B)	6 Log10 CFU	1,03

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Test Standard: Name of tests: Reference no:

ISO/DIS 22612:2005 / EN 14126:2003/AC:2004- 4.1.4.4 Penetration by biologically contaminated powders PBP-001

Test Purpose:

This test method is designed to determine a material's resistance to penetration by biologically contaminated powders.

Sampling method:

Ten samples material tested, Sample size: 200x200mm **Testing methods used:** Test time: 30 minutes Spores of Bacillus subtilis, ATCC 9372, Culture medium: TGE agar

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment: Vibrating apparatus

Test Procedure:

To measure the barrier against contaminated dust, the test materials is pre-sterilised and then fixed into the test apparatus and dosed with contaminated (Bacillus Subtilis) talcum powder. An agar culture plate is located underneath.

The test apparatus is agitated or shaken. The particles which penetrate the material are cultured and counted after incubation of the agar plate and a non-contaminated test specimen is run as a control. The results (mean values from 10 single results at a given time) are measured in penetration log units

Test results:

The test results obtained are given in the tables as follows

No. of Sample	Unit	Result		
1.sample	CFU	18,0		
2.sample	CFU	16,0		
3.sample	CFU	10,0		
4.sample	CFU	11,0		
5.sample	CFU	12,0		
6.sample	CFU	15,0		
7.sample	CFU	19,0		
8.sample	CFU	9,0		
9.sample	CFU	13,0		
10.sample	CFU	14,0		
Average	CFU 13,7			
No. of Sample	Unit	Result		
1.sample	Log10 CFU	1,3		
2.sample	Log10 CFU	1,2		
3.sample	Log10 CFU 1,0			
4.sample	Log10 CFU 1,0			
5.sample	Log10 CFU	1,1		
6.sample	Log10 CFU	1,2		
7.sample	Log10 CFU	1,3		
8.sample	Log10 CFU 1,0			
9.sample	Log10 CFU 1,1			
10.sample	Log10 CFU	1,1		
Average	Log10 CFU	1,1		
Talcum Concentration	CFU/g	7.7E+007		

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TEST REPORT

EN 13034:2005+A1:2009

Protective clothing against liquid chemicals (Type 6)

Client:	ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ.
Address:	Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/TÜRKİYE
Sample:	ES6124 Model (White coverall with hood, frontal zipper covered by flap and adhesive tape in full length, elasticated cuff, hood, ankle, Fabric: 100% PP laminated with PE in size S, M, L, XL, XXL, XXL
Sample received on:	April 20, 2020
Report Number:	NPT/20042012659/3
Elaborated by:	Ashley Madison

Place and date of issue:

Sheridan, WY May 05, 2020



Dr. Joseph Andrew, Ph.D. Head of Testing Laboratory

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!

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Test Standard: Name of tests: Reference no: EN 530:1996 Met.2 / EN 14325:2018-4.4.1 / EN 13034:2005+A1:2009-4.1 Abrasion Testing AT-001

Test Purpose:

This test method is used to measure abrasion resistance of fabric used in protective clothings.

Sampling method:

4 circular samples of fabric are cut with a diameter of 14cm used in this test.

Testing methods used:

A test method for determining abrasion testing in accordance with standard EN 530:1996 Met.2 / EN 14325:2018-4.4.1 / EN 13034:2005+A1:2009-4.1 Type of felt used: Woven

Pressure on sample: 9kPa Abradant: Abrasive paper 00

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment:

Martindale uses for abrasion test.

Test Procedure:

This test uses the Martindale Abrasion tester employed in the inverted mode, i.e. the test specimen is placed on the abradant table and the abradant is mounted in the test-piece holder. Testing is carried out on the outer surface of the test material.

Four specimens are mounted over woven felt base-pads and abraded under a test head pressure of 9kPa, using grade 00 abrasive cloth for a pre-determined number of cycles or until failure occurs.

If it is not possible to assess the performance of the fabric using the pressure pot, as required by EN14325 the end-point is determined using visual assessment as specified in EN 530: 2010.

Specimen breakdown in a coated material is when the coating surface has the first hole resulting from the wear, of a diameter at least equal to 0.5mm (hole does not have to be through material).

The material is classified according to the number of abrasion cycles needed to destruct the barrier layer as follows taking the lowest single result from the 4 measurements.

Test results:

The test results obtained are given in the tables as follows

No. of Sample	Unit	Results
1.sample	Cycles	750
2.sample	Cycles	750
3.sample	Cycles	750
4.sample	Cycles	750

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Test Standard: Name of tests: Reference no:

EN ISO 9073-4:1997 / EN 14325:2018-4.7 / EN 13034:2005+A1:2009-4.1 Tearing Strength Testing. Trapezoid Method. TST-001

Test Purpose:

This test method is used to measure determine the tear force of nonwoven textile fabrics used in protective clothing using the trapezoid method. These tests give an indication of how strong the fabric is in case a situation arose where the coverall needed to be freed from the machine. Coveralls can easily be torn if caught on sharp edges, for example, and so these are very real practical demonstrations of the strength of the fabric. The tests are very similar in that a sample of fabric is held in a clamp at the top and bottom, and the clamps are then pulled apart to see how much strength is required to pull the fabric apart.

Sampling method:

The five samples used in this test. Sample size: 75mm X 150mm

Testing methods used:

A test method for determining tear strength testing in accordance with standard EN ISO 9073-4:1997 / EN 14325:2018-4.7 / EN 13034:2005+A1:2009-4.1 Rate of extension: (100 ± 10) mm/min Length test: (25 ± 1) mm Useful length of tearing strength: (64 ± 1) mm Tearing strength: average of the significant peaks

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment:

Dynamometer uses for tearing strength test.

Test Procedure:

Five samples are prepared in each direction (MD and CD) and conditioned as described in the standard. A force is applied, to steadily extend a cut in the test specimen. The mean maximum tear resistance is given in Newtons. The performance of the material is classified using the mean result for the 5 results in each of the MD and CD of the material.

A rectangular specimen is marked and prepared so that it can be loaded in the grip faces at an angle, allowing a tear to propagate across the specimen.

Test results:

The test results obtained are given in the tables as follows

Tearing of the longitudinal direction	Unit	Results
1.sample	Newton	32,00
2.sample	Newton	38,00
3.sample	Newton	42,00
4.sample	Newton	31,00
5.sample	Newton	36,00
Average	Newton	35,80

Tearing of the transversal direction	Unit	Results
1.sample	Newton	22,90
2.sample	Newton	25,70
3.sample	Newton	23,90
4.sample	Newton	22,70
5.sample	Newton	19,80
Average	Newton	23,00

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test Standard: Name of tests: Reference no: EN ISO 13934-1:2013 / EN 14325:2018-4.9 / EN 13034:2005+A1:2009-4.1 Tensile Strength and Elongation Testing. Strip Method. TSE-001

Test Purpose:

This method specifies a procedure to determine the maximum force and the elongation at maximum force of textile fabrics using a strip method.

Sampling method:

The five samples used in this test. Width test: (50 ± 0.5) mm, Length test: (200 ± 1) mm

Testing methods used:

A test method for determining tensile strength and elongation testing with strip method in accordance with standard EN ISO 13934-1:2013 / EN 14325:2018-4.9 / EN 13034:2005+A1:2009-4.1. Rate of extension: (100 ± 10) mm/min Pretension applied: 2N

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment:

Dynamometer uses for tearing strength test.

Test Procedure:

Five samples are prepared in each direction, each 50mm wide and long enough to enable a gauge length of 200mm to be used. The tests are made on a Testometric machine fitted with flat faced jaws operating at a rate of extension of 100 mm per minute. A pre-tension of 2 Newtons is employed. The performance of the material is classified using the mean result of the 5 readings measured in each of the MD and CD.

Test results:

The test results obtained are given in the tables as follows;

Tearing of the longitudinal direction	Unit	Results
1.sample	Newton	85,20
2.sample	Newton	70,30
3.sample	Newton	69,80
4.sample	Newton	78,30
5.sample	Newton	84,60
Average	Newton	77,64

Tearing of the transversal direction	Unit	Results
1.sample	Newton	47,20
2.sample	Newton	42,30
3.sample	Newton	41,90
4.sample	Newton	45,70
5.sample	Newton	40,80
Average	Newton	43,58

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test Standard: Name of tests: Reference no: EN 863:1995 / EN 14325:2018-4.10 / EN 13034:2005+A1:2009-4.1 Puncture Resistance Testing PRT-001

Test Purpose:

This test method is used to measure Puncture strength tests are used to determine the puncture or rupture characteristics of a material. This is generally a compressive test where a material is compressed by a probe or other type of device until the material ruptures or until an elongation limit is achieved.

Sampling method:

The four samples used in this test.

Testing methods used:

A test method for determining puncture resistance test in accordance with standard EN 863:1995 / EN 14325:2018-4.10 / EN 13034:2005+A1:2009-4.1 Rate of extension: 100 mm/min

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment:

Dynamometer uses for puncture resistance test.

Test Procedure:

Four material specimens are tested with the outer face of the fabric to the test probe. The maximum force required to push the spike through the specimen is recorded as puncture resistance. The mean value is rounded to the nearest whole number and the performance of the material is classified using the mean result of the 4 measurements, according to the performance levels described in standard.

Test results:

The test results obtained are given in the tables as follows

to of samples	Unit	Results	
1.sample	Newton	16,90	
2.sample	Newton	15,80	
3.sample	Newton	19,40	
4.sample	Newton	16,80	
Average	Newton	17,23	

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test Standard: Name of tests: Reference no:

EN 13274-2:2001 Met. 3 / EN 13034:2005+A1:2009-4.1 Ignition and Flammability Testing IFT-001

Test Purpose:

This test method is used to to clip the fabric vertically, flame burns at the bottom, then observe if fabric debris occurs and the flame is extinguished itself before fabric burned out. The test aims to evaluate whether the fabric/materials is combustible.

Sampling method: The five samples used in this test.

Testing methods used:

A test method for determining puncture resistance test in accordance with standard EN 13274-2:2001 Met. 3 / EN 13034:2005+A1:2009-4.1

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment: Burner

Test Procedure:

Orientation of the burner: Vertical

Oritentation of the samples: Horizantal

Ignition test focuses on if the flame is extinguished eventually, disregard how wide area burned before flaming off. But, flame-retardant treated protective coverall can offer non-flammable effect when it is removed heat source. There is no fabric debris and burned hole will not keep spread.

Test results:

The test results obtained are given in the tables as follows

rioodit	
Pass	
Pass	
Pass	
Pass	
Pass	
	Pass Pass Pass Pass Pass Pass Pass

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test Standard: Name of tests: Reference no: EN ISO 6530:2005 / EN 14325:2018–4,12, 4,13 / EN 13034:2005+A1:2009-4.1 Penetration by Liquids Testing PLT-001

Test Purpose:

This test method is used to measure penetration by with 4 different liquids.

Sampling method: The three samples used in this test.

Testing methods used:

A test method for determining penetration by liquids test in accordance with standard EN ISO 6530:2005 / EN 14325:2018-4.10 / EN 13034:2005+A1:2009-4.1 Flow: $(10 \pm 0.5) (10 \pm 1)$

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment: Liquid Chamber.

Test Procedure:

For the test a transparent film and filter paper will be first be placed in the channel. Then, the sample fabric will be placed in a way that ensures that all surfaces are making contact and wrinkle-free. A beaker—which should be weighed beforehand—is placed at the end of the channel to gather the liquid the runs through the surface of the fabric. The test liquid will be allowed to run and, 60 seconds later, the fabric will be removed and the filter paper, the beaker and the transparent film will be weighed once more. The difference in weight (before and after the trial) will be calculated. The values result in the Penetration Index and the Repellency Index of each test tube and liquid given, in %.

Test results:

The test results obtained are given in the tables as follows

H₂SO4 30%

Direction		Warp Weft Med		Warp		Weft		Media
Sample	1	2	3	· . 1	2	3	Average	
Penetration Index %	0,00	0,00	0,00	0,00	0,00	0,00	0,00	
Repellency Index %	93,30	97,10	94,30	96,20	95,70	97,70	95,72	
Absorption Index %	6,70	2,90	5,70	3,80	4,30	2,30	4,28	

NaOH 10%

Direction		Warp			Weft		Media		
Sample	1	2	3	1	2	3	Average		
Penetration Index %	0,00	0,00	0,00	0,00	0,00	0,00	0,00		
Repellency Index %	95,20	96,70	93,90	94,80	95,70	95,10	95,23		
Absorption Index %	4,80	3,30	6,10	5,20	4,30	4,90	4,77		

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o-xylene

Direction	Warp				Weft		
Sample	4	2	3	1	2	3	Average
Penetration Index %	4,9	4,2	5,1	4,8	4	5	4,67
Repellency Index %	90,2	89,8	91,6	90,1	89,9	91,2	90,47
Absorption Index %	4,9	6	3,3	5,1	6,1	3,8	4,87

1-butanol

Direction	Warp				Weft		
Sample	1	2	3	1	2	3	Average
Penetration Index %	5,9	5,5	4,9	4,6	5	4,8	5,12
Repellency Index %	90,3	89,9	91,5	90,2	89,8	91,1	90,47
Absorption Index %	3,8	4,6	3,6	5,2	5,2	4,1	4,42

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test Standard: Name of tests: Reference no:

EN ISO 13935-2:2014 / EN14325:2018 - 5.5 / EN 13034:2005+A1:2009-4.2.2 Seam tensile properties. Grab method PST-001

Test Purpose:

This test method is used to determinate of seam maximum force of sewn seams when the force is applied perpendicularly to the seam. This test describes the method known as the grab test.

Sampling method: The five samples used in this test.

Sample size: 100x350mm

Testing methods used: Rate of extension: (50 ± 10) mm/min Length test: (100 ± 1) mm Seams ready done

Test conditions:

Min. 24hr, temperature of (20 \pm 2) °C and a relative humidity of air of (65 \pm 5) %.

Test Equipment:

Test Procedure:

The tests were made following the EN ISO 17491-4:2008/AMD 1:2016, method A (low-level spray) procedure. An aqueous spray, containing a fluorescent or visible dye tracer, is directed under controlled conditions at the chemical protective clothing worn by a human test subject. Inspection of the inside surface of the clothing and the outside surface of the absorbent overall worn under the test garment allows any points of inward leakage to be identified.

Test results:

The test results obtained are given in the tables as follows

No of samples	Unit	Results
1.sample	Newton	215
2.sample	Newton	190
3.sample	Newton	200
4.sample	Newton	220
5.sample	Newton	230
Average	Newton	211

Remarks:

- (1) fabric tear
- (2) fabric tear at the jaws
- (3) fabric tear at the seam
- (4) sewing threads breakage
- (5) threads pull-out
- (6) any combination of (1) up to (5)

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Test Standard: Name of tests: Reference no: EN ISO 17491-4:2008/A1:2016 / EN 13034:2005+A1:2009-5.2 Penetration by Spray PS-001

Test Purpose:

This test method is used to determinate of resistance to penetration by liquids in the form of a light spray (mist test)

Sampling method:

Undergarment: white with hood (Nonwoven) Stain sample: 1cm² Max. area of stains: 3x1cm²

Testing methods used:

Method A used. And test method for determining penetration by spray test in accordance with standard EN ISO 17491-4:2008/A1:2016 / EN 13034:2005+A1:2009-5.2 Test liquid: Aqueous solution with dye water soluble Spray pressure: 3 bar Flow: (0.47±0.05) l/min Preliminary test: Execution sequence of movements (7 step)

Test conditions:

Min. 24hr, temperature of (20 ± 2) °C and a relative humidity of air of (65 ± 5) %.

Test Equipment:

Turn-table and system of hydraulic nozzles with angle spray at 75° which uses for penetration by spray test. Type of hydraulic nozzle: hollow cone.

Additional protective accessories: latex gloves, mask, waterproof overalls, face shield

Test Procedure:

The tests were made following the EN ISO 17491-4:2008/A1:2016, method A (low-level spray) procedure. An aqueous spray, containing a fluorescent or visible dye tracer, is directed under controlled conditions at the chemical protective clothing worn by a human test subject. Inspection of the inside surface of the clothing and the outside surface of the absorbent overall worn under the test garment allows any points of inward leakage to be identified. Surface tension measurements of the test solution were recorded in the reservoir and at the nozzle before and after testing and these ranged from 50.0 to 51.5Nm-1x10 -3 and 50.6 to 51.3Nm-1 x10-3 respectively.

Wearer	Height	Chest (cm)	Suit Size	
	(cm)			
00	173	107	L	

Test results:

The test results obtained are given in the tables as follows

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TEST-1







Test	Unit	Results
Total number of points penetration	-	0
Total number of points penetration	Cm²	0

*Total penetration area shoul be less than or equal to 3 times the area of stain sample

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





TEST-2



Test	Unit	Results
Total number of points penetration	-	0
Total number of points penetration	Cm ²	0

*Total penetration area shoul be less than or equal to 3 times the area of stain sample

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





TEST-3









Test	Unit	Results
Total number of points penetration	-	0
Total number of points penetration	Cm ²	0

*Total penetration area shoul be less than or equal to 3 times the area of stain sample

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





TEST REPORT

EN ISO 13982-1 : 2004 / A1 : 2010

Protective Clothing Against Solid Particulate (Type 5)

ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ.
Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/TÜRKİYE
and a second second second second second second second second second second second second second second second
ES6124 Model (White coverall with hood, frontal zipper covered by flap and adhesive tape in full length, elasticated cuff, hood, ankle, Fabric: 100% PP laminated with PE in size S, M, L, XL, XXL, XXL
April 20, 2020
NPT/20042012659/4
Ashley Madison
Sheridan, WY May 05, 2020



Dr. Joseph Andrew, Ph.D. Head of Testing Laboratory

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Test Standard: Name of tests: Reference no: EN ISO 13982-1:2004 / A1:2010-4.3.2 Aerosol Penetration AP-001

Test Purpose:

This test method is used to determine the barrier efficiency of chemical protective clothing against aerosols of dry, fine dusts.

Sampling method:

At least 5 test subjects are involved, each testing 2 suits. So at least 10 suits are tested. The device is a white material one piece hooded coverall incorporating elasticated ankles, waist, hood and wrists. There is a double action zip at the front of the suit which runs from the crotch to the neck and is covered during use by a flap which is sealed onto the suit material by means of double sided tape.

Testing methods used:

Test agent: Sodium Chloride aerosol

Test conditions:

Temperature and relative humidity measurements were recorded in the test chamber before and after each test and these ranged from 24.5 to 27.4°C and 47.1 to 59.6%, respectively

Test Equipment:

Aerosol Test Chamber.

Test Procedure:

This test is performed using "real people" and is designed to simulate everyday use. The garment is donned according to the manufacturers' instructions, including any protective equipment.

Prior to entering the test chamber the test subject (real person) is asked to repeat the following sequence of movements 3 times at what is termed "normal working speed";

1) Kneel on both knees, lean forward and place both hands on the floor 45cm in front of the knees. Crawl forward on hands and knees over a distance of 3m and crawl backwards again over the same distance

2) 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 as far as possible.

3) Kneel on right knee, place left foot on floor with left knee bent 90°, left arm hanging loosely at side. Raise left arm fully overhead. Once they have completed these movements the suit is inspected visually for tears or rips in the fabric, seams, closures or connections to gloves, boots or mask (if any). Any damage is mentioned in the test report, but the test would be discontinued if the damage was significant or hindered the test subjects' movement.

On entering the test chamber the test subject is asked to perform various test exercises in sequence. These are;

1) standing still

2) walking at 5 km/h

3) continuous squatting at a frequency of five squats per minute, between standing up straight and knees completely bent, while keeping both hands during all squats on a grip at a height of 1m (+/-0.05m) above the standing surface.
 4) A 3 min rest is allowed (standing still) between the walking and squatting exercises.

Throughout the process various measurements are taken on the concentration of particulates inside and outside of the suit. A calculation is then used to ascertain the inward leakage during each test and the total inward leakage of particles into the suit.

The physical dimensions of the wearers are shown below;

Wearer	Height (cm)	Chest (cm)	Suit size
00	173	107	
BK	172	100	L
VL	170	99	
ML	175	102	
AD	174	105	L

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Test results:

The test results obtained are given in the tables as follows

Result-1) Aerosol Inward leakage (%) individual results

wearer	position	knee	waist	chest	average
	stand	1,255	0,980	0,971	1,069
00	walk	1,494	1,259	1,450	1,401
00	squat	12,350	14,280	13,543	13,391
	average	5,033	5,506	5,321	5,287
	stand	0,984	1,445	1,972	1,467
00	walk	1,155	0,984	2,054	1,398
00	squat	16,840	14,470	16,940	16,083
	average	6,326	5,633	6,989	6,316
	stand	2,250	2,025	2,235	2,170
PV	walk	2,010	2,350	2,641	2,334
DN	squat	20,980	16,480	18,840	18,767
	average	8,413	6,952	7,905	7,757
and when the test of the	stand	1,597	1,241	2,100	1,646
BK	walk	1,680	1,723	2,150	1,851
	squat	17,460	20,190	11,194	16,281
	average	6,912	7,718	5,148	6,593
and the regress sould be	stand	0,974	1,151	1,950	1,358
VL	walk	2,150	1,641	2,550	2,114
•	squat	16,710	14,550	13,549	14,936
	average	6,611	5,781	6,016	6,136
	stand	1,450	1,150	1,855	1,485
VL	walk	1,750	1,365	2,150	1,755
	squat	9,494	11,690	10,180	10,455
	average	4,231	4,735	4,728	4,565
	stand	0,980	1,950	1,500	1,477
ML	walk	1,955	2,220	2,010	2,062
	squat	15,100	16,265	15,350	15,572
	average	6,012	6,812	6,287	6,370
	stand	1,254	1,255	1,694	1,401
MI	walk	1,950	2,060	2,155	2,055
	squat	10,950	13,594	16,690	13,745
	average	4,718	5,636	6,846	5,734
	stand	1,658	1,540	2,150	1,783
	walk	2,290	1,540	2,510	2,113
	squat	12,954	14,600	12,649	13,401
	average	5,634	5,893	5,770	5,766
	stand	1,190	1,950	1,350	1,497
	walk	1,980	2,050	1,700	1,910
AD L	squat	12,650	14,900	13,510	13,687
[average	5,273	6,300	5,520	5,698

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Result-2) Total Inward leakage (%) (overall average, all wearers)

position	knee	waist	chest	average
stand	1,359	1,469	1,778	1,535
walk	1,841	1,719	2,137	1,899
squat	14,549	15,102	14,245	14,632
average	5,916	6,097	6,053	6,022

Result-3) Total Inward leakage per test object

wearer	average
OC	5,801
ВК	7,175
VL	5,351
ML	6,052
AD	5,732
average	6,022

Assessment of compliance:

EN ISO 13982-1 specifies the requirements and classes of type 5 suits as:

When tested in accordance with EN ISO 13982-2 the type 5 protective clothing shall be characterized by the following parameters:

Ljmn,82/90 : 90

LjmIL 82/90: the inward leakage value (in percent), equal to or superior to 82/90 (91.1%) of all IL values measured (all exercises, all sampling positions, all suits); TILS8/10: the "total inward leakage per suit" value, equal or superior to 80% of all TILS-values. Type 5 chemical protective clothing shall meet at least the following requirements: IL 82/90 For this suit, all of the IL results are less than 30% and all of the TILS are less than 15%. The sample complies with the requirements of EN ISO 13982-1 for inward leakage of aerosol of solid.

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Test Standard:	EN ISO 7854:1997 / EN 14325:2018-4.5 / EN ISO 13982-1:2004 / A1:2010-4.1		
Name of tests:	Resistance to damage by repeated flexing		
Reference no:	RRF-001		
Test Equipment:	Flexometer		
Test condition:	(20 ± 2) °C , (65 ± 5) %RH		
Sample size:	105x50mm		
No. of sample:	6		
No. of cycles:	100000		
Mobile disk frequency:	(8.3 ± 0.4) Hz compression pulse per minute		
Stroke length of mob.disk:	(11.7 ± 0.35)mm		

Test results:

The test results obtained are given in the tables as follows

result	
1-2 null	
result	
1-2 null	

0-any deterioration, 1-slight deterioration, 3-moderated deterioration, 4-severe deterioration

Depth of cracking: Null-no cracks, A-surface or finish crack, not exposing the cellular or middle layer B-cracking into but not right through the middle layer C-cracking through the base fabric D-cracking right the material

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TEST REPORT

EN 1149-5 : 2018

Protective Clothing Electrostatic properties Material performance and design requirements

Client:	ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ.
Address:	Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/TÜRKİYE
Sample:	ES6124 Model (White coverall with hood, frontal zipper covered by flap and adhesive tape in full length, elasticated cuff, hood, ankle, Fabric: 100% PP laminated with PE in size S, M, L, XL, XXL, XXL
Sample received on:	April 20, 2020
Report Number:	NPT/20042012659/5
Elaborated by:	Ashley Madison
Place and date of issue:	Sheridan WY May 05, 2020



Dr. Joseph Andrew, Ph.D. Head of Testing Laboratory

TESTING Whote: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test Claudend	EN 4440 5:0040 / EN 4440 4:0000
lest Standard:	EN 1149-5:2018 / EN 1149-1:2006
Name of tests:	Electric Surface Resistance
Sample condition:	Min. 24hr, temperature of (23 \pm 1) °C and a relative humidity of air of (25 \pm 5) %.
Test equipment:	Ohmeter
Test condition:	(23 ± 1) °C , (25 ± 5) %RH
Electrodes:	Туре А
Voltage:	(100 ± 5) V

Test procedure:

The sample is placed on an insulating base plate, then placed the group of electrodes on the sample, apply a continuous stream and measure the resistance of the sample

Requirements: the surface resistivity must be less than 5 x 10¹⁰ Ω

The inhomogeneous material must have a conductive yarn net and the maximum distance between the conductive threads must be of 10 mm.

Test results:

The test results obtained are given in the tables as follows

Electric Surface Resistance			
No. of sample	Surface Resistance (Ohm)	Surface Resistivity (Ohm)	
1.sample	< 5x10⁴	< 1x10 ⁶	
2.sample	< 5x10⁴	< 1x10 ⁶	
3.sample	< 5x10 ⁴	< 1x10 ⁶	
4.sample	< 5x10⁴	< 1x10 ⁶	
5.sample	< 5x10⁴	< 1x10 ⁶	
Average	< 5x10⁴	< 1x10 ⁶	

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Test Standard:	EN 1149-3:2004 Met.2 / EN 1149-5:2018	
Name of tests:	Charge Decay	
Sample condition:	condition: Min. 24hr, temperature of (23 ± 1) °C and a relative humidity of air of (25 ± 5) %	
Test equipment:	Electric Charge Meter	
Test condition:	(23 ± 1) °C , (25 ± 5) %RH	

Test procedure:

The test methods are applicable to all materials, including homogeneous materials and heterogeneous forms of fiber materials with conducting surface and / or conductive fibers with conductive fiber core.

Charging by induction: The burden of the test sample is performed by inductive effect. Immediately below the test sample, which remains horizontal and no contact with it, an electrode is placed in the field. The field electrode is subjected to high voltage abruptly. If the sample is conductive or contain conductive elements is induced on it a charge opposite to the field electrode.

Electrode field incident on the conductive elements does not cross the sample and the resulting field is reduced in a manner that is characteristic of the material tested. This effect is measured and recorded by behind of the sample with a probe of appropriate action. The resulting field measured by the probe-mediated decreases the load induced on the sample size increases. This reduction of field is used to determine the time of semi-dissipation and protection coefficient.

Test results:

The test results obtained are given in the tables as follows

		EN 114	9-3:2004 Ch	arge Decay	
Sample		R	esults		Requirements
Tested Sample	Shielding factor (S)			Average	Shielding factor ≥ 0,2
	0,22	0,18	0,29	0,230	and/or
	Half decay time t50		Average	Half decay time ≤ 4s	
	1,75	1,86	1,73	1,780	

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





Test Standard: Name of tests: Size EN 1149-5:2018, clause 5 Control of specific design requirements L

Test results:

The test results obtained are given in the tables as follows

Requirement	Result
Electrostatic dissipative protective clothing shall be able to permanently cover all non-complying materials during normal use (inclusive bending and movements)	Pass
Electrostatic dissipative protective clothing shall allow full body movement with closures fastened	Pass
Thin non-dissipative attachments, such as labels, reflective stripes, shall be permanently attached	Pass
Conductive parts (zippers, buttons etc.) are permitted provided they are fully covered by the outermost material when in use	Pass

Note: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





TEST REPORT

EN ISO 13688 : 2013

Protective Clothing General Requirements

CI	ien	t:
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ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ.

Address:

Sample:

Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/TÜRKİYE

ES6124 Model (White coverall with hood, frontal zipper covered by flap and adhesive tape in full length, elasticated cuff, hood, ankle, Fabric: 100% PP laminated with PE in size S, M, L, XL, XXL, XXL

Sample received on: April 20, 2020

Report Number:

NPT/20042012659/1

Elaborated by:

Ashley Madison

Place and date of issue:

Sheridan, WY May 05, 2020



Dr. Joseph Andrew, Ph.D. Head of Testing Laboratory

TESTING Whote: The results given in this Test Report apply only to the sample tested by our laboratory! Without a written consent by National Protective Testing LLC, in WY, the Test Report may not be reproduced unless as a whole!





TEST REPORT

EN 14126:2003/AC:2004

Protective Clothing Against Infective Agents

Client:

ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ.

Address:

Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/TÜRKİYE

Sample:

ES6124 Model (White coverall with hood, frontal zipper covered by flap and adhesive tape in full length, elasticated cuff, hood, ankle, Fabric: 100% PP laminated with PE in size S, M, L, XL, XXL, XXL

Sample received on: April 20, 2020

Report Number:

NPT/20042012659/2

Elaborated by:

Ashley Madison

Place and date of issue:

Sheridan, WY May 05, 2020



Dr. Joseph Andrew, Ph.D. Head of Testing Laboratory

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TEST REPORT

EN 1149-5 : 2018

Protective Clothing Electrostatic properties Material performance and design requirements

Client:	ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ.
Address:	Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/TÜRKİYE
Sample:	ES6124 Model (White coverall with hood, frontal zipper covered by flap and adhesive tape in full length, elasticated cuff, hood, ankle, Fabric: 100% PP laminated with PE in size S, M, L, XL, XXL, XXL
Sample received on:	April 20, 2020
Report Number:	NPT/20042012659/5
Elaborated by:	Ashley Madison
Place and date of issue:	Sheridan, WY May 05, 2020



Dr. Joseph Andrew, Ph.D. Head of Testing Laboratory

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TEST REPORT

EN ISO 13982-1 : 2004 / A1 : 2010

Protective Clothing Against Solid Particulate (Type 5)

Client:	ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ.
Address:	Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/TÜRKİYE
Sample:	ES6124 Model (White coverall with hood, frontal zipper covered by flap and adhesive tape in full length, elasticated cuff, hood, ankle, Fabric: 100% PP laminated with PE in size S, M, L, XL, XXL, XXL
Sample received on:	April 20, 2020
Report Number:	NPT/20042012659/4
Elaborated by:	Ashley Madison
Place and date of issue:	Sheridan, WY May 05, 2020



Dr. Joseph Andrew, Ph.D. Head of Testing Laboratory

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TEST REPORT

EN 13034:2005+A1:2009

Protective clothing against liquid chemicals (Type 6)

Client:	ESTİLO MODA TEKSTİL TARIM HAYVANCILIK İNŞAAT İÇ DIŞ TİC. VE SAN. LTD. ŞTİ.
Address:	Gazi Osman Paşa Mah. Kolej Sok. No:2/A Turhal/TOKAT/TÜRKİYE
Sample:	ES6124 Model (White coverall with hood, frontal zipper covered by flap and adhesive tape in full length, elasticated cuff, hood, ankle, Fabric: 100% PP laminated with PE in size S, M, L, XL, XXL, XXL
Sample received on:	April 20, 2020
Report Number:	NPT/20042012659/3
Elaborated by:	Ashley Madison

Place and date of issue:

Sheridan, WY May 05, 2020



Dr. Joseph Andrew, Ph.D. Head of Testing Laboratory

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