

Gentile cliente, alla luce degli eventi giornalistici pubblicati su varie testate, mi corre l'obbligo di precisare quanto segue:

L'ente certificatore N.B 2163, è un organismo riconosciuto e accreditato dall'Unione Europea e presente nella lista Nando, attualmente operante e che sin dall'inizio della pandemia ha sviluppato un iter procedurale focalizzato sulla certificazione delle mascherine FFP2.

Di conseguenza un'alta percentuale di FFP2 distribuite in Europa fanno capo a questo N.B.

La Distribuzione Junior Srl effettua periodicamente controlli a campione su ogni lotto di produzione testando internamente il BFE che risulta sempre superiore allo standard richiesto (>95%) e ha sempre riscontrato conformità allo standard dichiarato. Il test report è stato eseguito internamente alla UNIVERSAL CERTIFICATION e pertanto non subappaltato a laboratori esterni Cinesi.

Naturalmente nel mercato esistono moltissimi prodotti di dubbia provenienza e moltissime volte contraffatte. In prima persona abbiamo più volte denunciato alla GDF diverse vendite di prodotto marcato ENHANCE contraffatte sia sui canali AMAZON che presso rivenditori e/o importatori. L'articolo pubblicato sul Corriere.it elenca le mascherine che secondo dei test di cui non sono stati resi pubblici i risultati, non avrebbero superato la norma 149:2001; al momento non contestiamo il lavoro svolto dai giornalisti, ma abbiamo la certezza che si tratta di prodotti prelevati dal mercato dove continuamente attraverso gli organi di controllo sequestriamo settimanalmente prodotti Enhance EKNK95-001 indicando come produttore Meizhuangchen risultati palesemente contraffatti.

Siamo in attesa di test condotti da laboratorio

Italiano sul un lotto di mascherine originali marchiate Enhance e prodotte da Meizhuangchen, il laboratorio Fonderia Mestieri srl sta testando tutta la norma 149:2001 e non una parte della stessa. Fiduciosi che il prodotto passerà tutti i test vi terremo aggiornati sugli sviluppi dei risultati. Nel frattempo i nostri legali stanno contattando le testate giornalistiche che stanno riportando la notizia falsa, per effettuare chiarimenti e correzioni all'articolo.

Al tal proposito per evitare confusioni e per rendere trasparente il riconoscimento di un prodotto originale da uno contraffatto (e che potrebbe non garantire gli standard del ns prodotto) abbiamo preparato uno schema di istruzioni per aiutare il consumatore finale ed anche i rivenditori presenti nel mercato a riconoscere il prodotto contraffatto e a segnalarlo alle autorità competenti.



Come riconoscere le mascherine ffp2 originali certificate marchio Enhance.

Nasello in metallo
incorporato nel tessuto

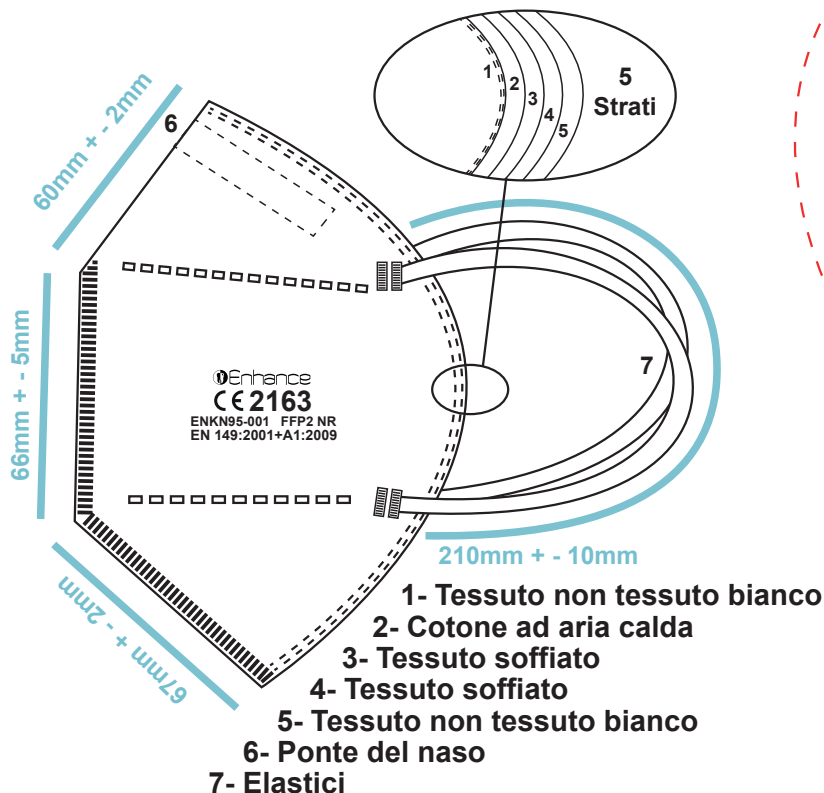
Termosaldature
rinforzate.

Elastici morbidi
larghezza 5mm

Perfetta aderenza al volto

Enhance
CE 2163
ENKN95-001 FFP2 NR
EN 149:2001+A1:2009

Timbro originale
marchio Enhance



Link:
<http://www.universalcert.com/en/document-interview/%98%AA%F3F%93%9B%95%2A%22Z3%12-%E6%14%CO>



Verifica la Validità
Check the validity
Comprueba la validez
Vérifiez la validité
Überprüfen Sie die Gültigkeit

Link:
<http://www.enhanceorthodontics.it/dichiarazione/dichiarazioneconformita.php>



Dichiarazione di conformità
Declaration of Conformity
Declaración de conformidad
Déclaration de conformité
Konformitätserklärung

Scan QR per verificare l'autenticità del
certificato e scaricare la dichiarazione di
conformità del prodotto.



Mascherina imbustata singolarmente.

Code: ENKN95-001

Conforme: EN 149: 2001 + A1: 2009

Category: III

Class: FFP2 NR

CE 2163



MEIZHUANGCHEN HEALTH TECHNOLOGY (SHENZHEN) CO., LTD
MEIZHUANGCHEN Industrial Park, 12 Yuhe Road, Baoan District, Shenzhen



DISTRIBUZIONE JUNIOR SRL
VIA PACE 25/6 80047 SAN GIUSEPPE VES. (NA) ITALY
Tel. +39 (081) 3626381 Fax. +39 (081) 3626380

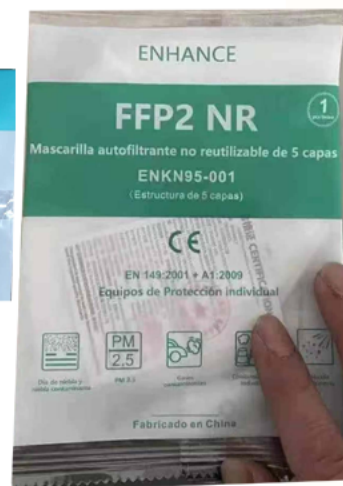
© Enhance - Trade mark propriety - DISTRIBUZIONE JUNIOR SRL

PRODOTTI ENHANCE CONTRAFFATTI MODELLO ENKN95-001 PRESENTI SUL MERCATO ITALIANO E EUROPEO CHE ABBIAMO NEL TEMPO DENUNCIATO E PROVVEDUTO A FAR SEQUESTARE. HANNO INDICATO SEMPRE IL NOSTRO CERTIFICATO, IL NOSTRO MARCHIO, IL NR MODELLO ED INFINE IL FABBRICANTE MEIZHUANGCHEN HEALTH TECHNOLOGY (SHENZHEN) CO., LTD SEMPRE ESTRANEO AI FATTI.

DEROGA INAIL EMESSA A SEGUITO DI INVIO DEL TEST REPORT ORIGINALE DELL'ENTE UNIVERSAL CERTIFICATION E MAI RICHIESTA DA NOI E DAL FABBRICANTE.

R.	DATA	PRODOTTO	PRODUTTORE	IMPORTATORE	REGIONE NAZIONE	FOTO
447						
448						
449	21/07/2020	Scatole mascherina FFP2 NR modello ENKN95-001 Marken Enhance	MEIZHUANGCHEN HEALTH TECHNOLOGY (SHENZHEN) CO., LTD.	RELANCO SRL	Lombardia	
450						

CONFEZIONE SINGOLA DI MASCHERINA FFP2 ENHANCE CONTRAFFATTA



SCATOLA DI PRODOTTO ENHANCE CONTRAFFATTO INDICANTE TUTTI I DATI PRESENTI SUL NS CERTIFICATO COMPRESO IL FABBRICANTE.

MASCHERINE CONTRAFFATTA ENHANCE



Declaration of conformity
Dichiarazione di conformità
Konformitätserklärung
Déclaration de conformité

I hereby declare that the product - *Qui di seguito si dichiara che il prodotto* - *Nachfolgend erklären wir, dass das Produkt* - *Ci-dessous, nous déclarons que le produit*

ENKN95-001

(Name of product, type or model, batch or serial number) – (nome del prodotto o modello, categoria o numero di serie) –
(Produkt- oder Modellname, Kategorie oder Seriennummer) - (nom du produit ou modèle, catégorie ou numéro de série)

This declaration of conformity is issued under the sole responsibility of the manufacturer
La presente dichiarazione di conformità è rilasciata sotto l'esclusiva responsabilità del fabbricante
Diese Konformitätserklärung wird unter der ausschließlichen Verantwortung des Herstellers ausgestellt
Cette déclaration de conformité est délivrée sous la responsabilité exclusive du fabricant



Is in compliance to all relevant essential requirements of the regulation 2016/425/UE. The following standards and essential test suites published in the "Official Journal" of the European communities, have been used to demonstrate the conformity of the product:

Soddisfa tutti i requisiti applicabili alla tipologia del prodotto e richiesti dal regolamento 2016/425/EU, tramite l'utilizzo delle norme pubblicate nella gazzetta ufficiale della comunità Europea:

Erfüllt alle Anforderungen, die für die Art des Produkts gelten und in der Verordnung 2016/425/EU vorgeschrieben sind, unter Verwendung der im Amtsblatt der Europäischen Gemeinschaft veröffentlichten Normen:

Répond à toutes les exigences applicables au type de produit et exigées par le règlement 2016/425/UE, grâce à l'utilisation des normes publiées au journal officiel de la communauté européenne:

EN149:2001+A1:2009

Certification Number:
Numero del certificato:
Zertifikatsnummer:
Numéro de certificat

2163-PPE-667

Notify Body:
Ente notificato:
Benannte Stelle:
Organisme notifié:

Universal Certification and Surveillance Service Trade Ltd. Co. - Necip Fazıl
Bulvarı Keyap Sitesi E2 Blok No: 44/84 Yukarı Dudullu Ümraniye – Istanbul -
Turkey

PPE is subject to the conformity assessment procedure based on internal production control combined with product tests under official control carried out at random intervals (module C2) under the surveillance of the notified body:

Il DPI è oggetto della procedura di valutazione della conformità basata sul controllo interno della produzione unito a prove del prodotto sotto controllo ufficiale effettuate ad intervalli casuali (modulo C2) sotto la sorveglianza dell'organismo notificato:

PSA unterliegen dem Konformitätsbewertungsverfahren auf der Grundlage der internen Produktionskontrolle in Kombination mit Produkttests unter behördlicher Kontrolle, die in zufälligen Abständen (Modul C2) unter Überwachung der benannten Stelle durchgeführt werden:

Les EPI sont soumis à la procédure d'évaluation de la conformité basée sur un contrôle interne de la production combiné à des tests de produits sous contrôle officiel effectués à intervalles aléatoires (module C2) sous la surveillance de l'organisme notifié:

Universal Certification and Surveillance Service Trade Ltd. Co. - Necip Fazıl Bulvarı Keyap Sitesi E2 Blok No: 44/84 Yukarı Dudullu - Ümraniye – Istanbul - Turkey

Company responsible for placing on the market:

Società Responsabile per l'immissione nel mercato:

Unternehmen, das für das Inverkehrbringen verantwortlich ist:

Entreprise responsable de la mise sur le marché:

Distribuzione Junior srl

Address:

Indirizzo:

Adresse:

Adresse:

Via Pace,25/26 – 80047 San Giuseppe Vesuviano (NA) - Italy

Point of contact:

Persona di contatto:

Gesprächspartner:

Contact:

Amministratore/Administrator/Administrateur – Napolitano Anna

Firmato a nome e per conto di - Signed for and on behalf of

Unterzeichnet für und im Auftrag von - Signé pour et au nom de

Distribuzione Junior s.r.l

San Giuseppe Vesuviano – 08/05/2020

(Place, date) - (Luogo, data) – (Ort, Datum) – (Lieu, Date)



DICHIARAZIONE DI CONFORMITÀ REACH E ROHS

Con la presente si certifica che i nostri articoli sono pienamente conformi ai requisiti del Regolamento dell'Unione Europea (CE) 1907/2006 relativo alla registrazione, valutazione, autorizzazione e restrizione delle sostanze chimiche (REACH):

Modelli: EH3625 - EH3640 - ENKN95-001

1. Secondo la struttura del regolamento REACH, la nostra azienda è un produttore di **"DM e DPI"** per i nostri clienti dell'UE. Non produciamo "sostanze" o "preparati" e i nostri articoli non comportano il rilascio intenzionale di sostanze. Non è richiesta la registrazione o la preregistrazione o l'autorizzazione per il prodotto che forniamo.
2. Per quanto riguarda i requisiti dell'articolo 33 del REACH: "Obbligo di comunicare informazioni su sostanze contenute in articoli" Dichiariamo che nessuna delle SVHC (Elenco di sostanze candidate estremamente preoccupanti per l'autorizzazione pubblicato in conformità con l'articolo 59 del regolamento REACH) è presente nel nostro articolo in una concentrazione pari o superiore allo 0,1%
3. Per quanto riguarda i requisiti dell'articolo 67 del REACH: Una sostanza in quanto tale, in un preparato o in un articolo, di cui all'allegato XVII, soggetta a restrizioni d'uso non deve essere immessa sul mercato europeo o utilizzata a meno che non rispetti le condizioni di quella restrizione. Dichiariamo che nessuna delle sostanze soggette a restrizione di uso è presente nel nostro prodotto.

Poiché il regolamento REACH viene aggiornato frequentemente, per le principali modifiche successive, come l'inserimento delle sostanze SVHC nell'Allegato XIV, l'inserimento di sostanze soggette a restrizioni nell'Allegato XVII, la nostra Società valuterà ulteriori revisioni nel tempo e aggiornerà la dichiarazione per riflettere questi cambiamenti.

In caso di mancata presentazione di nuova Dichiarazione si intende confermata la validità di quanto riportato nella presente.

Dichiarazione di Conformità RoHS

Con la presente, inoltre, certifichiamo che i nostri prodotti sono conformi a tutti i requisiti e le esenzioni stabiliti dalla Direttiva Europea RoHS 2.0 2011/65 UE e dalla Direttiva Europea Delegata (UE) 2015/863

In caso di altre informazioni e chiarimenti potete far riferimento al nostro contatto REACH:

Luigi Aprile ☎ +39 081 3626381 Fax +39 081 3626380
e-mail luigiaprile3@gmail.com

Nola (NA) 26/10/2020

Ambiente e Sicurezza

Luigi Aprile



Distribuzione Junior srl

Circolare per Clienti

Mascherine FFP2 Universal Certification CE2163

Certificato 667 e 667/1

Mascherina FFP2 ENKN95-001

Gentile cliente, alla luce degli eventi giornalistici pubblicati su varie testate, mi corre l'obbligo di precisare quanto segue:

La Universal Certification CE2163 ha testato il 90% circa delle mascherine presenti sul mercato EUROPEO, essendo accreditato dalla Comunità Europea per testare la 425/2016 (vedi NANDO).

La Distribuzione Junior srl con certificato 667 e 667/1 è stata una delle prime a certificare presso l'ente che ha rilasciato il certificato l'8 maggio 2020 e che al momento stà rieseguendo i test per il rinnovo dello stesso certificato prima della scadenza temporale.

Siamo estranei ai fatti in oggetto, come credo la stessa Universal Certification, il tutto credo che si riferisca a qualche mascherina di provenienza cinese che non è risultata idonea, ma lo scoop giornalistico che deve fare audince ha volutamente generalizzato focalizzandosi sull'ENTE e non sul modello della mascherina. Nell'ottica della trasparenza la Distribuzione Junior srl si è attivata presso altro laboratorio accreditato per la 149:2001 e testare il proprio modello di mascherina modello ENKN95-001 e dare conferma della qualità dei suoi prodotti che al momento risultano anche testati secondo la direttiva REACH che garantisce l'assenza di tossicità.

Nola 01/03/2021

Distribuzione Junior srl



Distribuzione Junior Srl

Sede Legale: San Giuseppe Vesuviano (NA) Via Pace, 25/6 - 80047 P.Iva 08836731219

Sede Operativa: Via Boscofangone ZONA ASI 80035 NOLA (NA)

Tel. 0813626381 - Fax 0813626380



EKOTEKS

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

Esenyurt Firuzköy Bulvarı No:29 34325 Avcılar
İstanbul/ TÜRKİYE



Test
TS EN ISO/IEC 17025
AB-0583-T

TEST REPORT
DENEY RAPORU

AB-0583-T

20039087-
ing

10-20

Customer name: DISTRIBUZIONE JUNIOR SRL
Address: 25/6-80047 SAN GIUSEPPE VESUVIAO (NA)/ITALY
Buyer name: MEGACERT ULUSLARARASI BELGELENDİRME VE EĞİTİM HİZ.
LTD. ŞTİ.
Contact Person: -
Order No: 18
Article No: FFP2 MASK ENKN95-001
Name and identity of test item: White non-woven mask .(Claimed to be Colour code: White Mask with
FFP2)
The date of receipt of test item: 19.10.2020
Re-submitted/re-confirmation date: -
Date of test: 19.10.2020-26.10.2020
Remarks: -
Sampling: The results given in this report belong to the received sample by vendor.
End-Use: -
Care Label: Not Specified
Number of pages of the report: 5

The Turkish Accreditation Agency (TURKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports.

EKOTEKS LABORATUVAR ve GÖZETİM HİZMETLERİ A.Ş. accredited by TÜRKAK under registration number [AB-0583-T] for ISO 17025:2017 as test laboratory.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Seal

Date
26.10.2020

Customer Representative
Ahmet ÇİRKİN

Head of Testing Laboratory
Sevim A. RAZAK
26.10.2020

*This report shall not be reproduced other than in full except with the permission of the laboratory.
Testing reports without signature and seal are not valid.*

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

AB-0583-T
20039087- ing
10-20

REQUIRED TESTS	RESULT	COMMENTS
ECOLOGICAL TESTS		
Forbidden Arylamines In Dyestuff	P	
Chromium VI	P	
P: Pass F: Fail R: Refer to retailer technologist. Test results were evaluated according to “Registration, Evaluation, Authorisation and Restriction of Chemicals” Legislation limit values dated on 23.06.2017 and No: 30105.		

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



This report shall not be reproduced other than in full except with the permission of the laboratory.
Testing reports without signature and seal are not valid.

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

AB-0583-T

20039087-
ing

10-20

TEST RESULTS

FORBIDDEN AROMATIC ARYLAMINES-MAK III GROUP A1&A2 CATEGORY

Corresponding to the Ordinance on Commodities (Bedarfsgegenständeverordnung) be in force respectively the directive 2002/61/EEC the use of certain azo colorants is banned, which can release by reductive cleavage of their azo group(s) one or more of certain listed aromatic and cancerogenic amines.

Arylamines of class MAK III A1/ A2 are determined and quantified using a Gas Chromatography / Mass Selective Detector (GC/MSD)

List of arylamines, that are not allowed to be split off from dyes under reductive conditions ;

Nr	Substances	CAS No	Index No	EC number
	MAK III A1			
01	4-Aminobiphenyl	92-67-1	612-072-00-6	202-177-1
02	Benzidine	92-87-5	612-042-00-2	202-199-1
03	4-Chloro-o-toluidine	95-69-2		202-441-6
04	2-Naphthylamine (-Naphthylamine)	91-59-8	612-022-00-3	202-080-4
	MAK III A2			
05*	o-Aminoazotoluol (4-amino-2,3-dimethylazobenzene)	97-56-3	611-006-00-3	202-591-2
06	p-Chloroaniline (4-chloroaniline)	106-47-8	612-137-00-9	203-401-0
07	2,4-Diaminoaniline (4-Methoxy-m-phenylenediamine)	615-05-4		210-406-1
08	4,4'-Diaminodiphenylmethane (4,4'-methylendianiline)	101-77-9	612-051-00-1	202-974-4
09	3,3'-Dichlorobenzidine (3,3'-dichlorobiphenyl-4,4'-xylendiamine)	91-94-1	612-068-00-4	202-109-0
10	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	612-036-00-X	204-355-4
11	3,3'-Dimethylbenzidine (o-Tolidine) (4,4'-bi-o-toluidine)	119-93-7	612-041-00-7	204-358-0
12	3,3'-Dimethyl-4,4'-diaminodiphenylmethane (4,4'-methylene di-o-toluidine)	838-88-0	612-085-00-7	212-658-8
13	4,4'-Methylene-bis-(2-chloro-aniline) (2,2'-dichloro-4,4'-methylenedianiline)	101-14-4	612-078-00-9	202-918-9
14*	2-Amino-4-nitrotoluene (5-nitro-o-toluidine)	99-55-8		202-765-8
15	4,4'-Oxydianiline (4,4'-Diaminodiphenylether)	101-80-4		202-977-0
16	4,4'-Thiodianiline (4,4'-Diaminodiphenylsulfide)	139-65-1		205-370-9
17	o-Toluidine (2-aminotoluene)	95-53-4	612-091-00-X	202-429-0
18	4-Methyl-1,3-phenylenediamin (4-methyl-m-phenylenediamin) (2,4-Toluenediamine)	95-80-7	612-099-00-3	202-453-1
19	2,4,5-Trimethylaniline	137-17-7		205-282-0
20	o-Anisidine (2-Methoxyaniline)	90-04-0	612-035-00-4	201-963-1
21	2-Methoxy-5-methylaniline (p-Cresidine) (6-methoxy-m-toluidine)	120-71-8		204-419-1
22**	4-Amino Azobenzene	60-09-3	611-008-00-4	200-453-6
23***	2,4-Xylidine	95-68-1		
24***	2,6-Xylidine	87-62-7		

* The CAS-numbers 97-56-3 (No. 5) and 99-55-8 (No. 14) are detected further reduced to CAS-numbers 95-53-4 (No. 17) and 95-80-7 (No. 18).

** Azo colorants that are able to form 4-aminoazobenzene generate, under the condition of this method, aniline (CAS-number 62-53-3) and 1,4-phenylenediamine (CAS – number 106-50-3). Due to detection limits, only aniline may be detected. If aniline is detected above 5 mg/kg, then the presence of these colorants should be tested by ISO 14362-3 (for leathers ISO 17234-2).

*** Not regulated by law

Note: In case the sample was a blend of coloured synthetic material with further coloured fibers several test methods were carried out if necessary.

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

AB-0583-T
20039087- ing
10-20

TEST RESULTS

Component Name	Test Method	Forbidden Arylamines in Dyestuff Results	Conclusion
White main	DIN EN ISO 14362-1:2017 (with extraction)	ND ⁽¹⁾	Pass
White main	DIN EN ISO 14362-1:2017 (without extraction)	ND ⁽¹⁾	Pass

Max. limit specified by =30 ppm (individual).

Interpretation:

N.D⁽¹⁾ : Not detected according to the analysis as carried out, azo colourants banned under the Ordinance on Commodities were not detected in the article submitted.

LS. : Lack of sample.

NA : Not applicable.

"<" = less than

0 = Test not necessary (commodity not coloured or printed)

mg/kg= milligram per kilogram

ppm = part per million (mg/kg)

with extraction : Extraction method was applied.

without extraction : Extraction method was not applied.

Note : If an arylamine is listed in the test table, this means; The analytical result suggest that the commodity submitted has been manufactured or treated using azo colourant(s) which can release one or more of certain listed amines by cleavage of their azo group(s).

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

AB-0583-T
20039087- ing
10-20

TEST RESULTS

<u>CHROMIUM VI : ISO 17075-2:2017</u>	
Leather sample is extracted with phosphate buffer solution (pH 7-8) . The amount of Chromium (VI) in the filtrated extract is determined by High Performance Liquid Chromatography.	

RESULTS		
COMPONENT	CHROMIUM VI RESULTS(mg/kg)	EVALUATION
White main	N.D.	Pass

(1) N.D: Not detected

Leather articles cannot be marketed if they contain 3 mg / kg (0.0003% by weight) of chromium VI in excess weights.

ppm = part per million (mg/kg)

LS. : Lack of sample.

TECHNICAL ASSESSMENT REPORT

REPORT DATE / NO : 08.05.2020 / KKD-2163-667

Client: DISTRIBUZIONE JUNIOR SRL

Centre Address: Via Pace, 25/26 - 80047 San Giuseppe Vesuviano (Na), ITALY

Manufacturer: MEIZHUANGCHEN HEALTH TECHNOLOGY (SHENZHEN) CO., LTD.

Manufacturing Address: Meizhuangchen Industrial Park, 12 Yuhe Road, Shiyan Town, Baoan District, Shenzhen, CHINA

This report is to the above mentioned firm with the NATIONAL PROTECTIVE TESTING LLC firm's 25.04.2020 numbered NPT20040712681 test report and the test results which have been obtained according to the EN 149: 2001 + A1: 2009 standards of the product specified in this report, its relation was evaluated with Essential Requirements of Personal Protective Equipments and the results were found to be appropriate.

This report is an annex and an inseparable part of the EU Type Examination Certificate No. 2163 - PPE - 667 issued to the company. The test results and issued certificate belong only to the tested product. The technical report consists of a total of 7 pages.

Product Description : Particle Filtering Half Mask

Total Inward Leakage: Classification – FFP2

Trademark : ENHANCE

Model : ENKN95-001



**THE CLAUSES OF EN 149: 2001 + A1: 2009 STANDARD RELATED TO EUROPEAN UNION DIRECTIVE
EU 2016/425 REQUIREMENTS**

1.1. Design principles

1.1.1. Ergonomics

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 possible level.

1.1.2. Levels and classes of protection

1.1.2.1. Highest level of protection possible

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.

1.1.2.2. Classes of protection appropriate to different levels of risk

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.

1.2. Innocuousness of PPE

1.2.1. Absence of risks and other inherent nuisance factors

PPE must be so designed and manufactured as to preclude risks and other nuisance factors under foreseeable conditions of use.

1.2.1.1. Suitable constituent materials

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. Satisfactory surface condition of all PPE parts in contact with the user

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. Maximum permissible user impediment

Any impediment 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 Comfort and effectiveness

1.3.1. Adaptation of PPE to user morphology

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. Lightness and design strength

PPE must be as light as possible without prejudicing design strength and efficiency.

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. Information supplied by the manufacturer

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) In addition to the name and address of the manufacturer and/or his authorized representative established in the Community
- b) 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) Performance as recorded during technical tests to check the levels or classes of protection provided by the PPE in question;
- d) Suitable PPE accessories and the characteristics of appropriate spare parts;
- e) The classes of protection appropriate to different levels of risk and the corresponding limits of use;
- f) The obsolescence deadline or period of obsolescence of PPE or certain of its components;
- g) The type of packaging suitable for transport;
- h) The significance of any markings (see 2.12)
- i) Where appropriate the references of the Directives applied in accordance with Article 5(6) (b);
- j) The name, address and identification number of the notified body involved in the design stage of the PPE

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. ADDITIONAL REQUIREMENTS COMMON TO SEVERAL CLASSES OR TYPES OF PPE

2.1. PPE incorporating adjustment systems

If PPE incorporates adjustment systems, the latter must be designed and manufactured so that, after adjustment, they do not become undone unintentionally in the foreseeable conditions of use.

2.3. PPE for the face, eyes and respiratory system

Any restriction of the user's face, eyes, field of vision or respiratory system by the PPE shall be minimised.

The screens for those types of PPE must have a degree of optical neutrality that is compatible with the degree of precision and the duration of the activities of the user.

If necessary, such PPE must be treated or provided with means to prevent misting-up.

Models of PPE intended for users requiring sight correction must be compatible with the wearing of spectacles or contact lenses.

2.4. PPE subject to ageing

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.

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.

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 market indicating 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.

2.6. PPE for use in potentially explosive atmospheres

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.

2.8. PPE for intervention in very dangerous situations

The instructions supplied by the manufacturer with PPE for intervention in very dangerous situations must include, in particular, data intended for competent, trained persons who are qualified to interpret them and ensure their application by the user.

The instructions must also describe the procedure to be adopted in order to verify that PPE is correctly adjusted and functional when worn by the user.

Where PPE incorporates an alarm which is activated in the absence of the level of protection normally provided, the alarm must be designed and placed so that it can be perceived by the user in the foreseeable conditions of use.

2.9. PPE incorporating components which can be adjusted or removed by the user

Where PPE incorporates components which can be attached, adjusted or removed by the user for replacement purposes, such components must be designed and manufactured so that they can be easily attached, adjusted and removed without tools.

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

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 foreseeable useful life of the PPE. In addition, these marks must be complete, precise and comprehensible so as to prevent any misinterpretation; in particular, where 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.

If PPE (or a PPE component) is too small to allow all or part of the necessary marking to be affixed, the relevant information must be mentioned on the packing and in the manufacturer's notes.

3. ADDITIONAL REQUIREMENTS SPECIFIC TO PARTICULAR RISKS

3.10.2. Protection against cutaneous and ocular contact

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.

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.

Where, by 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 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 codes (if necessary), a detailed description of the standard tests and all appropriate information for the determination of the maximum permissible period of wear under the different foreseeable conditions of use.

Technical Assessment of EN 149: 2001 + A1: 2009 Standard and other Standards it refers to, Clauses Corresponding to the
(EU) 2016/425 Directive

Conforming to EN 149:2001 + A1:2009 Standard Requirements

Article 5	Classification : Particle Filtering Half Mask Total Inward Leakage: Classification – FFP2																																																																																																																														
Article 7.4	Packing : Particle filtering half masks are packaged to protect them from contamination before use and with cardboard boxes to prevent mechanical damage.																																																																																																																														
Article 7.5	Material : Materials used in particle filtering half masks, according to the simulated wearing treatment and temperature conditioning reports; It is understood withstand handling and wear over the period for which the particle filtering half mask is designed to be used, suffered mechanical failure of the facepiece or straps, any material from the filter media released by the air flow through the filter has not constitute a hazard or nuisance for the wearer.																																																																																																																														
Article 7.6	Cleaning and Disinfection : Particle filtering half mask is not designed to be as re-usable.																																																																																																																														
Article 7.7	Practical Performance : <table><tr><th>Assessed Elements</th><th>Positive</th><th>Negative</th><th>Requirements in accordance with EN 149:2001 + A1:2009 and Result</th></tr><tr><td>1.The face piece fitting</td><td>2</td><td>0</td><td rowspan="6">Positive results should be obtained from the performance tests related to the implementation under real conditions. No imperfections</td></tr><tr><td>2.Head harness comfort</td><td>2</td><td>0</td></tr><tr><td>3.Security of fastenings</td><td>2</td><td>0</td></tr><tr><td>4.Speech clearness</td><td>2</td><td>0</td></tr><tr><td>5.Field of vision</td><td>2</td><td>0</td></tr><tr><td>6.Materials compatibility with skin</td><td>2</td><td>0</td></tr></table> Conditioning : (A.R.) As Received, original	Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result	1.The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under real conditions. No imperfections	2.Head harness comfort	2	0	3.Security of fastenings	2	0	4.Speech clearness	2	0	5.Field of vision	2	0	6.Materials compatibility with skin	2	0																																																																																																							
Assessed Elements	Positive	Negative	Requirements in accordance with EN 149:2001 + A1:2009 and Result																																																																																																																												
1.The face piece fitting	2	0	Positive results should be obtained from the performance tests related to the implementation under real conditions. No imperfections																																																																																																																												
2.Head harness comfort	2	0																																																																																																																													
3.Security of fastenings	2	0																																																																																																																													
4.Speech clearness	2	0																																																																																																																													
5.Field of vision	2	0																																																																																																																													
6.Materials compatibility with skin	2	0																																																																																																																													
Article 7.8	Finish of Parts: Particle filtering half masks, which are likely to come into contact with the user, do not have sharp edges and do not contain burrs.																																																																																																																														
Article 7.9.1	Total Inward Leakage: <table><tr><th>Test Subject</th><th>No. of sample</th><th>Condition</th><th>1.Walk</th><th>Head left /right</th><th>Head up /down</th><th>Speech</th><th>2. Walk</th><th>Average</th></tr><tr><td>1</td><td>32</td><td>A.R</td><td>4,93</td><td>5,12</td><td>4,77</td><td>5,16</td><td>4,88</td><td>4,97</td></tr><tr><td>2</td><td>33</td><td>A.R</td><td>4,99</td><td>5,38</td><td>4,95</td><td>5,56</td><td>4,77</td><td>5,13</td></tr><tr><td>3</td><td>34</td><td>A.R</td><td>4,84</td><td>5,44</td><td>4,90</td><td>5,69</td><td>4,83</td><td>5,14</td></tr><tr><td>4</td><td>35</td><td>A.R</td><td>4,60</td><td>5,53</td><td>4,75</td><td>5,49</td><td>4,77</td><td>5,03</td></tr><tr><td>5</td><td>36</td><td>A.R</td><td>4,99</td><td>5,69</td><td>4,81</td><td>5,75</td><td>4,88</td><td>5,22</td></tr><tr><td>6</td><td>16</td><td>T.C.</td><td>5,17</td><td>5,45</td><td>5,16</td><td>5,44</td><td>5,10</td><td>5,26</td></tr><tr><td>7</td><td>17</td><td>T.C.</td><td>5,27</td><td>5,49</td><td>5,26</td><td>5,44</td><td>5,18</td><td>5,33</td></tr><tr><td>8</td><td>18</td><td>T.C.</td><td>5,17</td><td>5,42</td><td>5,19</td><td>5,45</td><td>5,14</td><td>5,27</td></tr><tr><td>9</td><td>19</td><td>T.C.</td><td>5,25</td><td>5,49</td><td>5,25</td><td>5,46</td><td>5,33</td><td>5,36</td></tr><tr><td>10</td><td>20</td><td>T.C.</td><td>5,20</td><td>5,45</td><td>5,24</td><td>5,30</td><td>5,14</td><td>5,27</td></tr><tr><td colspan="3">Average</td><td>5,04</td><td>5,45</td><td>5,03</td><td>5,48</td><td>5,00</td><td>5,20</td></tr><tr><td colspan="3">Min</td><td>4,60</td><td>5,12</td><td>4,75</td><td>5,16</td><td>4,77</td><td>4,97</td></tr><tr><td colspan="3">Max</td><td>5,27</td><td>5,69</td><td>5,26</td><td>5,75</td><td>5,33</td><td>5,36</td></tr></table> Conditioning : (A.R.) As Received, original (T.C.) Temperature conditioning Results P (%) Leakage Value Results meet with FFP2 requirements	Test Subject	No. of sample	Condition	1.Walk	Head left /right	Head up /down	Speech	2. Walk	Average	1	32	A.R	4,93	5,12	4,77	5,16	4,88	4,97	2	33	A.R	4,99	5,38	4,95	5,56	4,77	5,13	3	34	A.R	4,84	5,44	4,90	5,69	4,83	5,14	4	35	A.R	4,60	5,53	4,75	5,49	4,77	5,03	5	36	A.R	4,99	5,69	4,81	5,75	4,88	5,22	6	16	T.C.	5,17	5,45	5,16	5,44	5,10	5,26	7	17	T.C.	5,27	5,49	5,26	5,44	5,18	5,33	8	18	T.C.	5,17	5,42	5,19	5,45	5,14	5,27	9	19	T.C.	5,25	5,49	5,25	5,46	5,33	5,36	10	20	T.C.	5,20	5,45	5,24	5,30	5,14	5,27	Average			5,04	5,45	5,03	5,48	5,00	5,20	Min			4,60	5,12	4,75	5,16	4,77	4,97	Max			5,27	5,69	5,26	5,75	5,33	5,36
Test Subject	No. of sample	Condition	1.Walk	Head left /right	Head up /down	Speech	2. Walk	Average																																																																																																																							
1	32	A.R	4,93	5,12	4,77	5,16	4,88	4,97																																																																																																																							
2	33	A.R	4,99	5,38	4,95	5,56	4,77	5,13																																																																																																																							
3	34	A.R	4,84	5,44	4,90	5,69	4,83	5,14																																																																																																																							
4	35	A.R	4,60	5,53	4,75	5,49	4,77	5,03																																																																																																																							
5	36	A.R	4,99	5,69	4,81	5,75	4,88	5,22																																																																																																																							
6	16	T.C.	5,17	5,45	5,16	5,44	5,10	5,26																																																																																																																							
7	17	T.C.	5,27	5,49	5,26	5,44	5,18	5,33																																																																																																																							
8	18	T.C.	5,17	5,42	5,19	5,45	5,14	5,27																																																																																																																							
9	19	T.C.	5,25	5,49	5,25	5,46	5,33	5,36																																																																																																																							
10	20	T.C.	5,20	5,45	5,24	5,30	5,14	5,27																																																																																																																							
Average			5,04	5,45	5,03	5,48	5,00	5,20																																																																																																																							
Min			4,60	5,12	4,75	5,16	4,77	4,97																																																																																																																							
Max			5,27	5,69	5,26	5,75	5,33	5,36																																																																																																																							
Article 7.9.2	Penetration of filter material: Sodium Chloride Testing <table><tr><th>Condition</th><th>No. of Sample</th><th>Sodium Chloride Testing 95 L/min max (%)</th><th>Requirements in accordance with EN 149:2001 + A1:2009</th><th>Result</th></tr><tr><td>(A.R.)</td><td>23</td><td>3,88</td><td rowspan="9">FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %</td><td rowspan="9">Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)</td></tr><tr><td>(A.R.)</td><td>24</td><td>3,91</td></tr><tr><td>(A.R.)</td><td>25</td><td>3,76</td></tr><tr><td>(S.W.)</td><td>1</td><td>3,85</td></tr><tr><td>(S.W.)</td><td>2</td><td>4,17</td></tr><tr><td>(S.W.)</td><td>3</td><td>4,22</td></tr><tr><td>(M.S. T.C.)</td><td>7</td><td>4,64</td></tr><tr><td>(M.S. T.C.)</td><td>8</td><td>4,58</td></tr><tr><td>(M.S. T.C.)</td><td>9</td><td>4,32</td></tr></table> Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment 95 L/min = 1,6 dm ³ .sn ⁻¹	Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result	(A.R.)	23	3,88	FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)	(A.R.)	24	3,91	(A.R.)	25	3,76	(S.W.)	1	3,85	(S.W.)	2	4,17	(S.W.)	3	4,22	(M.S. T.C.)	7	4,64	(M.S. T.C.)	8	4,58	(M.S. T.C.)	9	4,32																																																																																												
Condition	No. of Sample	Sodium Chloride Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result																																																																																																																											
(A.R.)	23	3,88	FFP1 ≤ 20 % FFP2 ≤ 6 % FFP3 ≤ 1 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)																																																																																																																											
(A.R.)	24	3,91																																																																																																																													
(A.R.)	25	3,76																																																																																																																													
(S.W.)	1	3,85																																																																																																																													
(S.W.)	2	4,17																																																																																																																													
(S.W.)	3	4,22																																																																																																																													
(M.S. T.C.)	7	4,64																																																																																																																													
(M.S. T.C.)	8	4,58																																																																																																																													
(M.S. T.C.)	9	4,32																																																																																																																													

Article 7.9.2	Penetration of filter material : : Paraffin Oil Testing						
	Condition	No. of Sample	Paraffin Oil Testing 95 L/min max (%)	Requirements in accordance with EN 149:2001 + A1:2009	Result		
	(A.R.)	26	4,25	FFP1 ≤ 20 %	Filtering half masks fulfill the requirements of the standard EN EN 149:2001 + A1:2009 given in 7.9.2 in range of the first and second protection class (FFP1, FFP2)		
	(A.R.)	27	4,18				
	(A.R.)	28	4,13				
	(S.W.)	4	3,92	FFP2 ≤ 6 %			
	(S.W.)	5	3,88				
	(S.W.)	6	3,95				
	(M.S. T.C.)	10	4,14	FFP3 ≤ 1 %			
	(M.S. T.C.)	11	4,10				
(M.S. T.C.)	12	3,95					
Conditioning : (M.S.) Mechanical Strength (T.C.) Temperature Conditioning (A.R.) As Received, original (S.W.) Simulated wearing treatment							
Article 7.10	Compatibility with skin: In Practical Performance report, the likelihood of mask materials in contact with the skin causing irritation or other adverse effect on health was not reported.						
Article 7.11	Flammability :						
	Condition	No. of Sample	Visual inspection	Requirements in accordance with EN 149:2001 + A1:2009	Result		
	(A.R.)	32	1,5	Filtering half mask shall not burn or not continue to burn for more than 5 s after removal from the flame	Passed		
	(A.R.)	33	1,4				
	(T.C.)	21	1,2				
	(T.C.)	22	1,3				
Conditioning : (A.R.) As Received, original (T.C.) Temperature Conditioning							
Article 7.12	Carbon dioxide content of the inhalation air:						
	Condition	No. of Sample	CO ₂ content of the inhalation air [%] by volume	An average CO ₂ content of the inhalation air	Requirements in accordance with EN 149:2001 + A1:2009	Result	
	(A.R.)	41	0,88	0,88	CO ₂ content of the inhalation air shall not exceed an average of 1,0% by volume	Passed	
	(A.R.)	42	0,91				
	(A.R.)	43	0,84				
	Conditioning : (A.R.) As Received, original						
Article 7.13	Head harness: In Practical Performance report, No adverse effects have been reported for holding the mask of the head harness firmly in position, for total inward leakage properties.						
Article 7.14	Field of vision : In Practical Performance report, No adverse effects were reported for the field of vision features.						
Article 7.16	Breathing Resistance: Inhalation						
	Condition	No. of Sample	Flow Rate 30 L/min	Inhalation Resistance (mbar)		Requirements in accordance with EN 149:2001 + A1:2009	Result
				Requirements in accordance with EN 149:2001 + A1:2009	Flow Rate 95 L/min		
	(A.R.)	29	0,5	FFP1 ≤ 0,6	1,3	FFP1 ≤ 2,1	Passed
	(A.R.)	30	0,4		1,2		
	(A.R.)	31	0,5		1,4		
	(S.W.)	1	0,5	FFP2 ≤ 0,7	1,3	FFP2 ≤ 2,4	
	(S.W.)	2	0,5		1,4		
	(S.W.)	3	0,5		1,4		
	(T.C.)	13	0,6	FFP3 ≤ 1,0	1,5	FFP3 ≤ 3,0	
	(T.C.)	14	0,6		1,5		
	(T.C.)	15	0,5		1,3		
	Conditioning : (A.R.) As Received, original (S.W.) Simulated wearing treatment (T.C.) Temperature Conditioning						

Article 7.16	Breathing Resistance : Exhalation						
	Condition	No. of Sample	The dummy head position	Exhalation Resistance		Result	
				Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009		
	(A.R.)	29	Facing directly	2,3	FFP1 ≤ 3	Passed	
			Facing vertically upwards	2,2			
			Facing vertically downwards	2,1			
			Lying on the left side	2,3			
			Lying on the right side	2,0			
	(A.R.)	30	Facing directly	2,2	FFP2 ≤ 3		
			Facing vertically upwards	2,2			FFP3 ≤ 3
			Facing vertically downwards	2,1			
			Lying on the left side	2,3			
Lying on the right side			2,2				
Conditioning : (A.R.) As Received, original							
Breathing Resistance : Exhalation							
Condition	No. of Sample	The dummy head position	Exhalation Resistance		Result		
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009			
Article 7.16	(A.R.)	31	Facing directly	2,0	FFP1 ≤ 3	Passed	
			Facing vertically upwards	2,1			
			Facing vertically downwards	1,9			
			Lying on the left side	2,1			
			Lying on the right side	2,0			
	(S.W.)	1	Facing directly	2,2	FFP2 ≤ 3		
			Facing vertically upwards	2,2			FFP3 ≤ 3
			Facing vertically downwards	2,0			
			Lying on the left side	2,2			
			Lying on the right side	2,0			
	Conditioning : (A.R.) As Received, original (S.W.) Simulated wearing treatment						
	Breathing Resistance : Exhalation						
Condition	No. of Sample	The dummy head position	Exhalation Resistance		Result		
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009			
Article 7.16	(S.W.)	2	Facing directly	2,1	FFP1 ≤ 3	Passed	
			Facing vertically upwards	2,0			
			Facing vertically downwards	2,0			
			Lying on the left side	2,1			
			Lying on the right side	1,9			
	(S.W.)	3	Facing directly	2,0	FFP2 ≤ 3		
			Facing vertically upwards	2,3			FFP3 ≤ 3
			Facing vertically downwards	2,0			
			Lying on the left side	2,1			
			Lying on the right side	2,1			
	Conditioning : (S.W.) Simulated wearing treatment						
	Breathing Resistance : Exhalation						
Condition	No. of Sample	The dummy head position	Exhalation Resistance		Result		
			Flow Rate 160 L/min	Requirements in accordance with EN 149:2001 + A1:2009			
Article 7.16	(T.C.)	13	Facing directly	2,0	FFP1 ≤ 3	Passed	
			Facing vertically upwards	2,1			
			Facing vertically downwards	1,9			
			Lying on the left side	1,9			
			Lying on the right side	2,0			
	(T.C.)	14	Facing directly	2,2	FFP2 ≤ 3		
			Facing vertically upwards	2,2			FFP3 ≤ 3
			Facing vertically downwards	2,2			
			Lying on the left side	2,2			
			Lying on the right side	2,2			
	Conditioning : (T.C.) Temperature Conditioning						

UNIVERSAL

CERTIFICATION

Article 7.16	Breathing Resistance : <u>Exhalation</u>					
	Condition	No. of Sample	The dummy head position	Flow Rate 160 L/min	Exhalation Resistance Requirements in accordance with EN 149:2001 + A1:2009	Result
	(T.C.)	15	Facing directly	2,0	FFP1 ≤ 3	Passed
			Facing vertically upwards	2,1	FFP2 ≤ 3	
			Facing vertically downwards	1,9		
			Lying on the left side	2,0		
			Lying on the right side	2,1	FFP3 ≤ 3	
Conditioning : (T.C.) Temperature Conditioning						
Article 7.17.2	Clogging : This test is not applied to Particle Filtering Half Mask which is not reusable. <i>(For single shift use devices, the clogging test is optional test. For re-usable devices test is mandatory.)</i>					
Article 7.17.3	Penetration of filter material: This test is not applied to Particle Filtering Half Mask which is not reusable.					
Article 7.18	Demountable Parts: There are no demountable parts on the product.					
Article 9	Marking – Packaging: Necessary markings are available on the product and its packaging.					
Article 10	Information to be supplied by the manufacturer: In each of the smallest commercially available packaging of the product, implementation (installation instruction) pre-use controls, warning and usage limitations, storage and meanings of symbols / pictograms are defined.					

PREPARED BY	APPROVED BY
Mert TÜKENMEZ PPE Expert	Suat KAÇMAZ General Manager