

**CFU**  
**MEDICAL**

# U-MASK FFP2 Protective Particulate Respirator

UMASK FFP2 Protective Mask is produced to provide effective respiratory protection in the environments which are exposed to dust particles or non-volatile liquide particles.

- Tested and CE approved EN 149: 2001 + A1: 2009.
- Due to its foldable design, masks can be easily stored.
- FFP2 Mask maintains its shape even in hot and humid environments thanks to its front seams which provides ease of breathing.
- Spandex knit ear loops keeps the mask stable on the face in a comfortable yet protective manner.

## MATERIAL

Ear Loops	Spandex knit
Nose Clip	Double aluminum with pp coating
Filter	Meltblown 25gsm 2nd&4th layers
Inner & Outer Layer	Spunbond 50/30gsm 1st/5th Layer
Padding	Hot Air Cotton Fiber 50gsm 3rd layer

## APPROVALS

UMASK FFP2 meets all the requirements Personal Protective Regulations (UE) 2016/425, Respiratory Protective Devices - Filtering Half Masks to Protect Against Particles EN 149:2001:A1+2009 and has been awarded the CE quality certificate.

FFP2 Masks are hypoallergenic and free of latex, nylon, chlorine, paraben and fiberglass.

## STANDARDS

These products are manufactured according to European EN 149: 2001: A1 + 2009 personal protective equipment standard. Products are tested for usability, inward leakage, clogging resistance, filter penetration, long- term exposure (loading) and flammability. As well as their performance for filtering efficiency and respiratory resistance are measured. Their scores are presented as follows;

### Inward Leakage Performance;

Test	Parameter	Performance Level	UMASK FFP2 Score
Total inward Leakage	At least 8 out of the 10 individual wearer arithmetic means	<8	7.67

### Flammability, Long-term Exposure (loading) and Filter Penetration Performance;

Tests	Performance Level	UMASK FFP2 Score
Flammability	Mask shall not burn for more than 5 seconds	Flame not seen
Carbondioxide content of the inhalation air	Shall not exceed average of 1 %	% 0.75
Penetration of Sodium chloride into filter material 95 L/min %,max	Shall not exceed 6 %	% 5.07
Penetration of Paraffin oil into filter material 95 L/min %,max	Shall not exceed 6 %	% 5.41

### Respiratory Resistance Performance;

Tests	Parameter	Performance Level	UMASK FFP2 Score
Respiratory Resistance	Inhale 30L/min	Shall not exceed 0.7 mbar	0.55 mbar
Respiratory Resistance	Inhale 95L/min	Shall not exceed 2.4 mbar	2.33 mbar
Respiratory Resistance	Exhale 160L/min	Shall not exceed 3 mbar	2.14 mbar

## AREA OF USE

FFP2 mask can be used to protect the user from solid and non-volatile liquid particles. It provides protection against particles, dust, pollen and allergens hanging in air, smoke and fog. It is produced for professional use, not suitable for medical usage.

## INDUSTRIAL USAGE AREAS

<b>Sanding, Stripping, Grinding, Cutting, Drilling</b>	<b>Cement, Wood, Steel Paints, Varnish, Anti-rust coating Resins, Reinforced plastics (carbon/ glass fibre)</b>
<b>Construction and Maintenance</b>	<b>Scabbling, Concrete dust Plastering, Rendering, Cement mixing Demolition Groundwork, Earth moving, Piling, Underpinning Spray foam, Loft Insulation</b>
<b>Metal Working and Foundries</b>	<b>Welding, Soldering Elektrostatic plating Finishing, Slotting, Drilling, Riveting, Machining Oxyacetylene cutting Molten metal handling, Smelting</b>
<b>Cleaning and Waste Removal</b>	<b>Disinfection, Cleaning Waste Removal</b>
<b>Allergens and Biohazards</b>	<b>Mould, Fungus, Tuberculosis Bacteria, Viruses Diesel exhaust, smoke</b>
<b>Agriculture and Forestry</b>	<b>Handling infected animals, Culling Feeding livestock, Cleaning sheds / harvesters Straw chopping, Composting, Harvesting Pesticides, Insecticides (crop spraying)</b>
<b>Other Industrial Applications</b>	<b>Inks, Dyes, Solvents, Chemicals Powdered Additives Pharmaceuticals Rubber and Plastic Processing Oil and Gas Extraction and Processing Pottery and Ceramics Wood and Paper Mills</b>

## COLOR OPTIONS



WHITE



BLACK

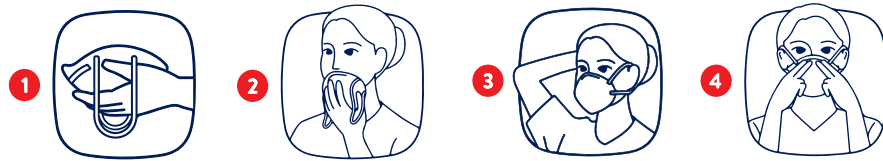
## STORAGE AND DISPOSAL

- Store in dry and clean space in its original package, away from direct sun light or high temperature and solvent vapors.
- Store in an environment with a temperature range -5° C to +25° C and relative humidity below 80%.
- Shelf life of the mask is three years from the date of manufacture.
- If the mask is damaged and got dirty it should be replaced. The mask should be replaced in accordance with your work regulations.
- In long-term use, when breathing becomes difficult, the mask should be replaced.
- Carefully dispose the used mask holding it by its ear loops.

## INSTRUCTIONS FOR USE

1. Unfold the mask and pull the earloop bands outward on both end.
2. Position the mask on your face with adjustable metal clip facing up.
3. Pull the earloop bands and place them around your ears.
4. Press down the nose clip with both hands to ensure a tight fitting seal around your nose.

The mask is produced for single use only. Do not use the mask more than once.



## CHEKING THE USAGE

1. After putting on the mask, cover over the mask with both hands.
  2. Exhale a deep, sharp breath.
  3. If air leaks over your nose, readjust the nose clip.
  4. If air leaks from the sides, re-secure the ear loops around ears.
- If the mask doesn't fit your face properly, do not enter hazardous area.

## WARNING AND RESTRICTIONS

1. Users must read the instruction manual and make sure to check the correct fitting.
2. Failure to follow all the instructions for use or not wearing the mask properly throughout the whole exposure duration may adversely affect the health of the user.
3. Follow the local regulations and review the field dependent requirements for use or consult a security professional.
4. The user should be trained in the use of mask in accordance with applicable Health and Safety Standards.
5. FFP2 masks do not protect against gases and vapors.
6. The oxygen rate in the environment where the mask is used should not be less than 19%.
7. FFP2 masks do not protect against hazardous atmospheric pollutants/ concentrations (IDLH).
8. Since the effects of the products against nature are not known, the masks should be thrown into the trash only.
9. Use of beard and facial hairs is not recommended since it prevents the necessary sealing between the face and the mask.
10. If you experience dizziness or if breathing becomes difficult in the contaminated area, leave your environment immediately.
11. No changes should be made on the mask.





Koli Boyutu Box Size	40 x 60 x 40 cm
1 Koli'deki Maske Miktarı Quantity of Masks in One Box	1.170 adet pieces
Ağırlık Weight	11 kg (± %2)



Palet Boyutu Pallet Size	80 x 120 x 240 cm
Koli Adeti Box Quantity	24 adet pieces
Ağırlık Weight	264 kg



Panelvan (17m <sup>3</sup> ) Koli Adeti Panel Van (17m <sup>3</sup> ) Box Quantity	113 adet pieces
Panelvan (17m <sup>3</sup> ) Toplam Maske Sayısı Panel Van (17m <sup>3</sup> ) Total Mask Quantity	132.210 adet pieces



40'lık Yüksek Küp Konteyner (76m <sup>3</sup> ) Koli Adeti 40" High-Cube Container (76m <sup>3</sup> ) Box Quantity	660 adet pieces
40'lık Yüksek Küp Konteyner (76m <sup>3</sup> ) Toplam Maske Sayısı 40" High-Cube Container (76m <sup>3</sup> ) Total Mask Quantity	772.200 adet pieces



40'lık Standart Konteyner (67m <sup>3</sup> ) Koli Adeti 40" Standard Container (67m <sup>3</sup> ) Box Quantity	620 adet pieces
40'lık Standart Konteyner (67m <sup>3</sup> ) Toplam Maske Sayısı 40" Standard Container (67m <sup>3</sup> ) Total Mask Quantity	725.400 adet pieces



20'lik Standart Konteyner (33m <sup>3</sup> ) Koli Adeti 20" Standard Container (33m <sup>3</sup> ) Box Quantity	260 adet pieces
20'lik Standart Konteyner (33m <sup>3</sup> ) Toplam Maske Sayısı 20" Standard Container (33m <sup>3</sup> ) Total Mask Quantity	304.200 adet pieces



13,6 x 2,45 x 2,70 m - 90m<sup>3</sup>

Standart Kapalı Kasa Kamyon Paletli Yüklendiğinde Koli Adeti Standard Optima Truck Box Quantity When Loaded With Pallet	792 adet pieces
Standart Kapalı Kasa Kamyon Paletli Yüklemede Toplam Maske Adeti Standard Optima Truck Total Mask Quantity When Loaded With Pallet	926.640 adet pieces
Standart Kapalı Kasa Kamyon Paletsiz Yüklendiğinde Koli Adeti Standard Optima Truck Box Quantity When Loaded Without Pallet	924 adet pieces
Standart Kapalı Kasa Kamyon Paletsiz Yüklendiğinde Toplam Maske Adeti Standard Optima Truck Total Mask Quantity When Loaded Without Pallet	1.081.080 adet pieces

CE 2841

## EC DECLARATION OF CONFORMITY

The object of declaration described above is confirmed with the relevant community harmonization directives.

**Company Name** : CFU Uluslararası Dış Tic ve Serv Hiz. A.Ş.  
**Address** : Ahi Evran Mah Ural Cad. No: 18/1 06935 Sincan/Ankara/Turkey  
**Regulation** : EU 2016/425  
**Category** : Category III  
**Standards** : EN 149:2001+A1:2009  
**Product name & model** : CF Umask FFP2 NR White and Black Colour  
**Product brand** : U-Mask  
**Test Report Number** : for "B" module : M-2021-00065  
for "C2" module : M-2021-00485

We confirm that our company produce the given products as declared above. Quality standards were tested at MNA laboratories as given at EN 149:2001+A1:2009 with regulation given at 2016/425 regulations.

For "B" module: 2841-PPE-146-21-01 for "C2" module:146-21-01-01

Issued by;

MNA Laboratuvarları San Tic. Ltd. Şti. address; Küçükbakkalköy Mah. Yenidoğan Cad No:21, Ataşehir İstanbul, Turkey, Who has notified body number CE2841 had subjected into process out in "Module B and Module C2" of Regulation (EU) 2016/425 under the surveillance of MNA Lab.

### LABELLING

Marketing, labelling and user information are prepared in accordance with regulation by EU 2016/425 PPE with EN 149:2001+A1:2009

CE 2841



Date of Issue

04/16th/2021

Sign and Stamp

CFU  
ULUSLARARASI DIŞ TİCARET VE  
SERVİS HİZMETLERİ A.Ş.  
Ahi Evran OSB Mah. Ural Cad. No:18/1  
06935 Sincan/Ankara/Türkiye  
Tel: (0312) 394 01 34  
Sati İmte = Company Manager

CE 2841

## EG-KONFORMITÄTSERKLÄRUNG

Der oben beschriebene Gegenstand der Erklärung wird durch die einschlägigen Richtlinien zur Harmonisierung der Gemeinschaft bestätigt

**Firmen name** : CFU Uluslararası Dış Tic ve Servis Hiz. A.Ş.  
**Adresse** : Ahi Evran Mah Ural Cad. No: 18/1 06935 Sincan/Ankara/Turkey  
**Verordnung** : EU 2016/425  
**Kategorie** : Kategorie III  
**Standards** : EN 149:2001+A1:2009  
**Produkt Name & Modell** : CF Umask FFP2 Weiß and Schwarz Farbe  
**Produkt Marke** : CF UMask  
**Numer des Prüfberichts** : zum B Modul M-2021-00065  
: zum C2 Modul M-2021-00485

Wir bestätigen, dass unser Unternehmen die angegebenen Produkte wie oben angegeben herstellt. Qualitätsstandards wurden an MNA-Laboratorien gemäß EN 149: 2001 + A1: 2009 getestet, wobei die Vorschriften den Vorschriften 2016/425 entsprechen.

2841-PPE zum B modul: 146-21-01 und zum C2 modul:146-21-01-01

Issued von

MNA Laboratuvarları San Tic. Ltd. Şti. at address; Küçükbakkalköy Mah. Yenidoğan Cad No:21, Ataşehir Istanbul, Turkey, Wer die Nummer CE2841 gemeldet hat, hat in "Modul B und C2 Modul" der Verordnung (EU) 2016/425 unter der Aufsicht von MNA Lab einen Prozess durchgeführt

### BESCHRIFTUNG

Vermarktung, Kennzeichnung und Benutzerinformationen werden gemäß den Bestimmungen der EU-PSA 2016/425 mit EN erstellt 149: 2001+A1:2009

CE 2841



Datum der Ausstellung

04/16th/2021

Unterschrift und Stempel

CFU  
ULUSLARARASI İSTİCARE VE  
SERVİS HİZMETLERİ A.Ş.  
Ahi Evran OSB Mah. Ural Cad. No: 18/1  
06935 SINCAN/ANKARA  
Tic. Sic. No: 271100/0134  
Sincan V. Mah. No: 2/12  
Sati İmre - Firmenleiter



**mna**  
LABORATUVARLARI

Notified Body Number: 2841

# AB Tip İnceleme Sertifikası EU Type-Examination Certificate

**Belge No / Certificate No** : 146-21-01  
**Belgelendirme Tarihi - Bir Sonraki Belge Tarihi /  
Certification Date / Certificate Validity Date** : 03.02.2021-03.02.2026  
**Belge Geçerlilik Tarihi / Document Validity Period: 5 yıl / 5 years**  
**Firma Unvanı ve Adresi /  
Company Name and Address** : CFU ULUSLARARASI DIŞ TİCARET VE  
SERVİS HİZMETLERİ ANONİM ŞİRKETİ  
Ahi Evran OSB Mah. Ural Cad. No: 18 İç kapı  
no:1 Sincan/ ANKARA

**Ürün Adı /Modeller / Product Name / Models** : UMASK  
**Direktifi / Directive** : 2016/425 REGULATION  
**Modülü/Kategori / Module / Category** : B MODÜLÜ/ KATEGORİ III  
MODULE B / CATEGORY III  
**Test Rapor No/ları / Test Report No** : M-2021-00065  
**Ürün Tipi / Product Type:**  
- EN 149:2001+ A1:2009 Solunumla ilgili koruyucu cihazlar - Parçacıklara karşı koruma amaçlı  
filtreli yarım maskelex/ Respiratory protective devices - Filtering half masks to protect against  
particles

**Ürünün Malzeme Bilgisi / Product Material Information:** UMASK model ürünleri kumaş, kulak kayışı,  
burun klipsi ve filtre katmanı kullanılarak imal edilmiştir./ UMASK model products are manufactured using  
fabric, ear loop, nose clip, filter layer.

**Volkan AKIN**  
03.02.2021

**Karar Verici / Approver**

**Okan AKEL**  
03.02.2021

**Şirket Müdürü / General manager**



MNA Laboratuvarları San. Tic.Ltd .Şti  
Adres: Küçükbakkalköy Mahallesi Yenidoğan Cad.No:21 Ataşehir/ İstanbul  
Tel: 0216 574 07 08 Faks: 0216 575 13 31 [www.mnalab.com](http://www.mnalab.com)



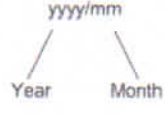

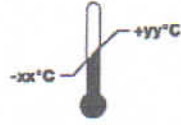

**ATTACHMENTS (146-21-01)**

To certify the PPE product at Category III level, C2 or D module is accompanied by applying one of the conformity assessment methods along with the EU Type Examination (Module B).

**Model : UMASK**

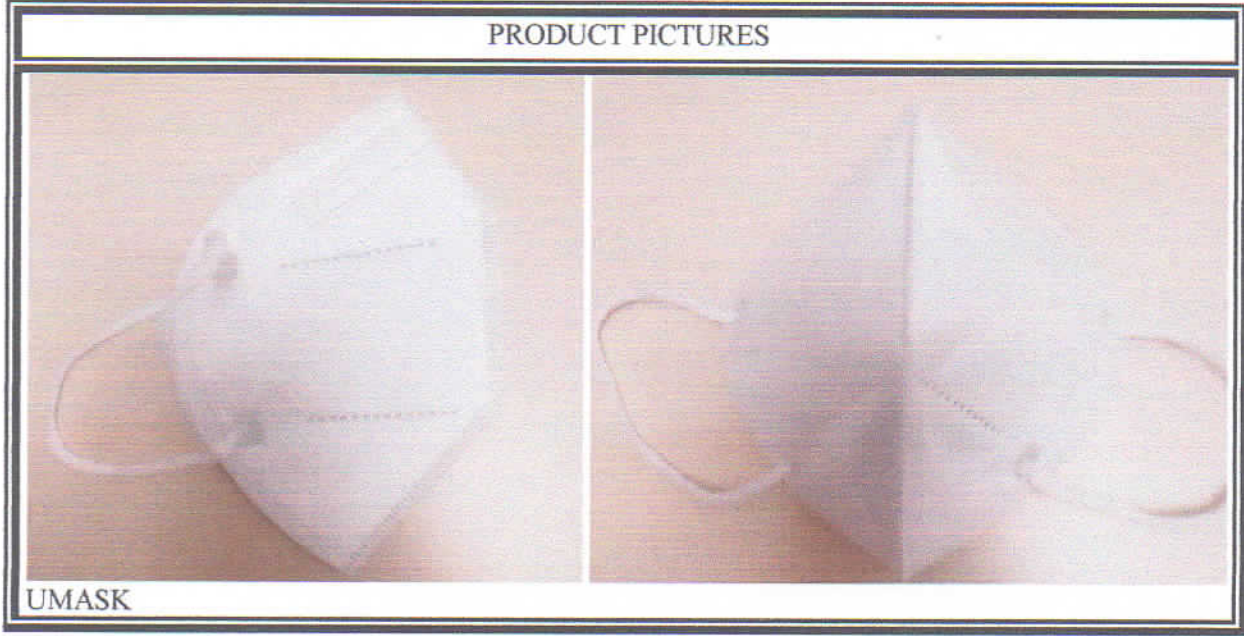
PPE SPECIFICATION	PERFORMANCE LEVELS
Classification	FFP2
Reusable / Single Shift Use	NR

PPE produced as a single unit to fit an individual user, all the necessary instructions for manufacturing such PPE on the basis of the approved basic model:

MARKING	
<b>MANUFACTURER:</b> CFU ULUSLARARASI DIŐ TİCARET VE SERVİS HİZMETLERİ ANONİM ŐRKETİ	
<b>PPE TYPE:</b>	
- EN 149:2001+ A1:2009 Respiratory protective devices - Filtering half masks to protect against particles	
<b>MODEL:</b> UMASK	
<b>PICTOGRAM AND PERFORMANCE LEVELS:</b>	
EN 149:2001+ A1:2009 FFP2 NR	
 NB 2841	
	 yyyy/mm
	 < xx%
Or Condition of Storage	

MNA LABORATORIES SAN. TIC. LTD. ŐTİ declares that the above-mentioned product meets the requirements of the directive according to the EU Directive 2016/425, the safety of the product is covered by the conditions and use specified in this certificate and in the technical file.



**ATTACHMENTS (146-21-01)****DOCUMENTS IN THE TECHNICAL FILE**

- Basic Health Safety Requirements
- Risk Assessment
- Test Reports
- Technical Report

Report No :146-21-01

Report Date :03.02.2021

Application No :146-21-01

**1. COMPANY INFORMATION:**

CFU ULUSLARARASI DIŞ TİCARET VE SERVİS HİZMETLERİ ANONİM ŞİRKETİ  
Ahi Evran OSB Mah. Ural Cad. No: 18 İç kapı no:1 Sincan/ ANKARA  
Tel: 0312 394 01 32

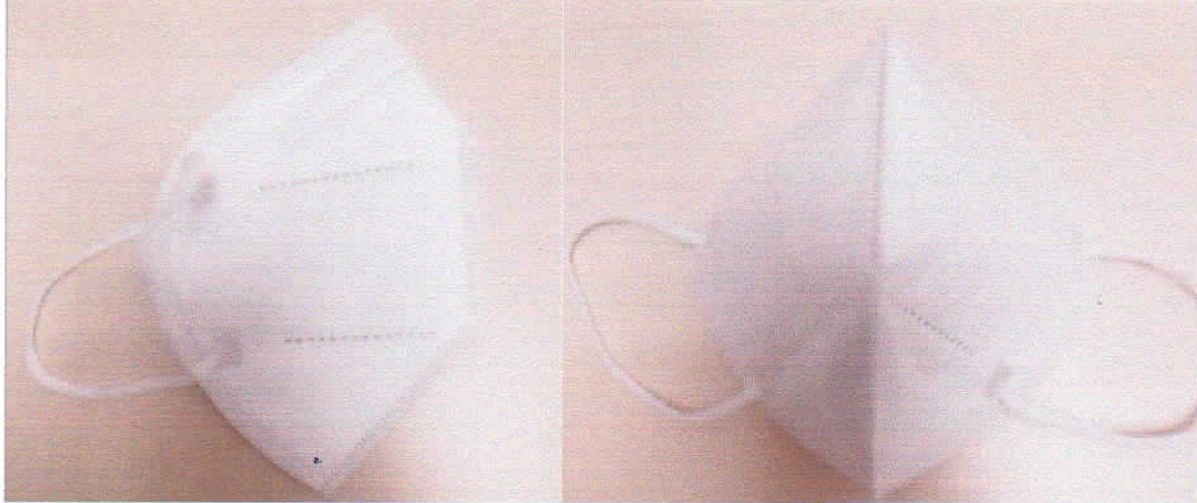
**2. PPE INFORMATION:**

Disposable and non-sterile half mask made of particulate protection filter material.

**3. PPE TYPE IDENTIFICATION**

EN 149:2001+A1:2009 Respiratory protective devices – Filtering half masks to protect against particles - Requirements, testing, marking

**4. PPE PICTURES**



UMASK

**5. PPE DIMENSIONS:**

UMASK model has been found to be produced using standart sizes.

**6. PPE PRODUCT MATERIAL INFORMATION:**

The product is made of elastic strap, nonwoven fabric on the outer and inner layers and filter material on the middle layer.

## 7. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

- A visual inspection was made according to EN 149:2001 +A1:2009 for ergonomics.
- Protection levels and degrees are defined by the manufacturer.
- Suitable construction materials were determined by visual inspection according to EN 149:2001 +A1:2009.
- Respiratory protective dimensions are evaluated according to EN 149:2001 +A1:2009.
- Conditioning EN 149:2001 +A1:2009 part 8.3, Penetration EN 149:2001 +A1:2009 part 8.11 (EN 13274-7), Application performance EN 149:2001 +A1:2009 part 8.4, Inward leakage EN 149:2001 +A1:2009 part 8.5, Flammability EN 149:2001 +A1:2009 part 8.6, The carbon dioxide content of the inhaled air EN 149:2001 +A1:2009 part 8.7, Inhalation resistance EN 149:2001 +A1:2009 part 8.9, Exhalation resistance EN 149:2001 +A1:2009 part 8.9 has been tested and evaluated.

## 8. ANALYSIS AND EVALUATIONS:

### EN 149:2001 +A1:2009

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Visual inspection	Shall also the marking and the information supplied by the manufacturer				Appropriate	-	PASS
Total inward leakage	At least 46 out of the 50 individual exercise result	<25	<11	<5	See the table below	FFP2	PASS
	At least 8 out of the 10 individual wearer arithmetic means	<22	<8	<2	See the table below	FFP2	PASS

Total Inward Leakage (%)						
	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As recieved)	6.6	7.5	5.7	7.0	7.1	6.8
Subject 2 (As recieved)	8.4	7.4	6.6	8.6	6.9	7.6
Subject 3 (As recieved)	8.1	5.7	6.2	6.9	6.8	6.7
Subject 4 (As recieved)	7.8	8.9	6.3	8.6	8.7	8.1
Subject 5 (As recieved)	7.7	8.4	8.2	8.7	8.8	8.4
Subject 6 (After temperature conditioning)	7.5	8.7	8.1	5.8	7.6	7.5
Subject 7 (After temperature conditioning)	7.8	8.1	6.3	6.9	9.1	7.6
Subject 8 (After temperature conditioning)	7.8	8.0	7.7	6.7	7.6	7.6
Subject 9 (After temperature conditioning)	7.9	9.1	7.5	7.6	7.8	8.0
Subject 10 (After temperature conditioning)	6.5	8.8	9.0	8.6	9.2	8.4

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Flammibility	Mask shall not burn or not to continue to burn for more than 5 s				Flame not seen	-	PASS
Carbondioxide content of the inhalation air	Shall not exceed an average of % 1				0,75 0,78 0,72	-	PASS
Penetration of filter material	Sodium chloride, 95 L/min % , max	% 20	% 6	% 1	See the table below	FFP2	PASS
	Paraffin oil, 95 L/min % , max	% 20	% 6	% 1	See the table below	FFP2	PASS

Penetration of filter material	Sodium Chloride (%)	Paraffin Oil (%)
As recieved	4.7	5.3
As recieved	4.9	4.8
As recieved	5.3	5.1
After the simulated wearing treatment	4.4	5.5
After the simulated wearing treatment	4.8	5.1
After the simulated wearing treatment	5.1	5.8
Mechanical strength and temperature conditioning	5.5	5.5
Mechanical strength and temperature conditioning	5.3	5.9
Mechanical strength and temperature conditioning	5.7	5.7

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Compatibility with skin	Materials shall not be known to be likely to cause irritation or any other adverse effect to health				Appropriate	-	PASS
Head harness	It can be donned and removed easily				Appropriate	-	PASS
Breathing Resistance	Inhalation 30L/min	0,6 mbar	0,7 mbar	1 mbar	See the table below	FFP2	PASS
	Inhalation 95L/min	2,1 mbar	2,4 mbar	3 mbar	See the table below	FFP2	PASS
	Exhalation 160L/min	3 mbar	3 mbar	3 mbar	See the table below	FFP2	PASS

Breathing Resistance (mbar)	Inhalation 30L/min	Inhalation 95L/min
As recieved	0,6	2,3
As recieved	0,6	2,4
As recieved	0,5	2,3
After temperature conditioning	0,5	2,3
After temperature conditioning	0,5	2,4
After temperature conditioning	0,6	2,3
After the simulated wearing treatment	0,6	2,4
After the simulated wearing treatment	0,5	2,3
After the simulated wearing treatment	0,6	2,3

Breathing Resistance 160L/min (mbar)	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As recieved	2,2	2,2	2,1	2,1	2,1
As recieved	2,1	2,1	2,1	2,2	2,2
As recieved	2,2	2,2	2,2	2,1	2,1
After temperature conditioning	2,1	2,1	2,1	2,2	2,1
After temperature conditioning	2,1	2,2	2,2	2,1	2,1
After temperature conditioning	2,1	2,2	2,2	2,2	2,1
After the simulated wearing treatment	2,2	2,1	2,1	2,1	2,1
After the simulated wearing treatment	2,1	2,1	2,1	2,2	2,2
After the simulated wearing treatment	2,2	2,2	2,2	2,1	2,2

## 9. DECISION PROPOSAL

Analysis and examinations UMASK model coded personal protective equipment; Respiratory Protective Devices EN 149:2001 +A1:2009- Filtered Half Masks for Protection Against Particles - Properties, Experiments and Marking standards are evaluated. It is recommended to be certified at the performance levels specified as a result of technical evaluations.

## 10. ATTACHMENTS

- Basic Health Safety Requirements
- Risk Assessment
- Test Reports
- User Instruction

CONTROLLER : VOLKAN AKIN

SING :

DATE : 03.02.2021



Report No :146-21-01

Report Date :03.02.2021

Application No :146-21-01

**1. COMPANY INFORMATION:**

CFU ULUSLARARASI DIŞ TİCARET VE SERVİS HİZMETLERİ ANONİM ŞİRKETİ  
Ahi Evran OSB Mah. Ural Cad. No:18 İç Kapı No:1 Sincan / ANKARA  
Tel : +90312 394 01 32

**2. PPE INFORMATION:**

Disposable and non-sterile half mask made of particulate protection filter material.

**3. PP TYPE IDENTIFICATION**

EN 149:2001+A1:2009 Respiratory protective devices – Filtering half masks to protect against particles - Requirements, testing, marking

**4. PPE PICTURES**



UMASK\_Black

**5. PPE DIMENSIONS**

UMASK Model has been found to be produced using standard sizes.

**6. PPE PRODUCT MATERIAL INFORMATION:**

The product is made of elastic strap, nonwoven fabric on the outer and inner layers and filter material on the middle layer.

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Flammability	Mask shall not burn or not to continue to burn for more than 5 s				Flame not seen	-	PASS
Carbondioxide content of the inhalation air	Shall not exceed an average of % 1				0,75 0,78 0,72	-	PASS
Penetration of filter material	Sodium chloride, 95 L/min % , max	% 20	% 6	% 1	See the table below	FFP2	PASS
	Paraffin oil, 95 L/min % , max	% 20	% 6	% 1	See the table below	FFP2	PASS

Penetration of filter material	Sodium Chloride (%)	Paraffin Oil (%)
As recieved	4.7	5.3
As recieved	4.9	4.8
As recieved	5.3	5.1
After the simulated wearing treatment	4.4	5.5
After the simulated wearing treatment	4.8	5.1
After the simulated wearing treatment	5.1	5.8
Mechanical strength and temperature conditioning	5.5	5.5
Mechanical strength and temperature conditioning	5.3	5.9
Mechanical strength and temperature conditioning	5.7	5.7

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Compatibility with skin	Materials shall not be known to be likely to cause irritation or any other adverse effect to health				Appropriate	-	PASS
Head harness	It can be donned and removed easily				Appropriate	-	PASS
Breathing Resistance	Inhalation 30L/min	0,6 mbar	0,7 mbar	1 mbar	See the table below	FFP2	PASS
	Inhalation 95L/min	2,1 mbar	2,4 mbar	3 mbar	See the table below	FFP2	PASS
	Exhalation 160L/min	3 mbar	3 mbar	3 mbar	See the table below	FFP2	PASS

## 7. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

- A visual inspection was made according to EN 149:2001 +A1:2009 for ergonomics.
- Protection levels and degrees are defined by the manufacturer.
- Suitable construction materials were determined by visual inspection according to EN 149:2001 +A1:2009.
- Respiratory protective dimensions are evaluated according to EN 149:2001 +A1:2009.
- Conditioning EN 149:2001 +A1:2009 part 8.3, Penetration EN 149:2001 +A1:2009 part 8.11 (EN 13274-7), Application performance EN 149:2001 +A1:2009 part 8.4, Inward leakage EN 149:2001 +A1:2009 part 8.5, Flammability EN 149:2001 +A1:2009 part 8.6, The carbon dioxide content of the inhaled air EN 149:2001 +A1:2009 part 8.7, Inhalation resistance EN 149:2001 +A1:2009 part 8.9, Exhalation resistance EN 149:2001 +A1:2009 part 8.9 has been tested and evaluated.

## 8. ANALYSIS AND EVALUATIONS:

### EN 149:2001 +A1:2009

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Visual inspection	Shall also the marking and the information supplied by the manufacturer				Appropriate	-	PASS
Total inward leakage	At least 46 out of the 50 individual exercise result	<25	<11	<5	See the table below	FFP2	PASS
	At least 8 out of the 10 individual wearer arithmetic means	<22	<8	<2	See the table below	FFP2	PASS

Total Inward Leakage (%)						
	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As recieved)	6.6	7.5	5.7	7.0	7.1	6.8
Subject 2 (As recieved)	8.4	7.4	6.6	8.6	6.9	7.6
Subject 3 (As recieved)	8.1	5.7	6.2	6.9	6.8	6.7
Subject 4 (As recieved)	7.8	8.9	6.3	8.6	8.7	8.1
Subject 5 (As recieved)	7.7	8.4	8.2	8.7	8.8	8.4
Subject 6 (After temperature conditioning)	7.5	8.7	8.1	5.8	7.6	7.5
Subject 7 (After temperature conditioning)	7.8	8.1	6.3	6.9	9.1	7.6
Subject 8 (After temperature conditioning)	7.8	8.0	7.7	6.7	7.6	7.6
Subject 9 (After temperature conditioning)	7.9	9.1	7.5	7.6	7.8	8.0
Subject 10 (After temperature conditioning)	6.5	8.8	9.0	8.6	9.2	8.4



Breathing Resistance (mbar)	Inhalation 30L/min	Inhalation 95L/min
As recieved	0,6	2,3
As recieved	0,6	2,4
As recieved	0,5	2,3
After temperature conditioning	0,5	2,3
After temperature conditioning	0,5	2,4
After temperature conditioning	0,6	2,3
After the simulated wearing treatment	0,6	2,4
After the simulated wearing treatment	0,5	2,3
After the simulated wearing treatment	0,6	2,3

Breathing Resistance 160L/min (mbar)	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As recieved	2,2	2,2	2,1	2,1	2,1
As recieved	2,1	2,1	2,1	2,2	2,2
As recieved	2,2	2,2	2,2	2,1	2,1
After temperature conditioning	2,1	2,1	2,1	2,2	2,1
After temperature conditioning	2,1	2,2	2,2	2,1	2,1
After temperature conditioning	2,1	2,2	2,2	2,2	2,1
After the simulated wearing treatment	2,2	2,1	2,1	2,1	2,1
After the simulated wearing treatment	2,1	2,1	2,1	2,2	2,2
After the simulated wearing treatment	2,2	2,2	2,2	2,1	2,2

## 9. DECISION PROPOSAL

Analysis and examinations UMASK model coded personal protective equipment; Respiratory Protective Devices EN 149:2001 +A1:2009- Filtered Half Masks for Protection Against Particles - Properties, Experiments and Marking standards are evaluated. It is recommended to be certified at the performance levels specified as a result of technical evaluations.

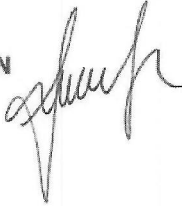
## 10. ATTACHMENTS

- Basic Health Safety Requirements
- Risk Assessment
- Test Reports
- User Instruction

CONTROLLER : VOLKAN AKIN

SING :

DATE : 03.02.2021



Report No : 146-21-01-01

Report Date : 16.04.2021

Application No : 146-21-01-01

**1. COMPANY INFORMATION:**

CFU ULUSLARARASI DIŐ TİCARET VE SERVİS HİZMETLERİ ANONİM ŐİRKETİ  
Ahi Evran OSB Mah. Ural Cad. No: 18 İ kapı no:1 Sincan/ ANKARA  
Tel: 0312 394 01 32

**2. PPE INFORMATION:**

Disposable and non-sterile half mask made of particulate protection filter material.

**3. PPE TYPE IDENTIFICATION**

EN 149:2001+A1:2009 Respiratory protective devices – Filtering half masks to protect against particles -  
Requirements, testing, marking

**4. PPE PICTURES**



UMASK

**5. PPE DIMENSIONS:**

UMASK model has been found to be produced using standard sizes.

**6. PPE PRODUCT MATERIAL INFORMATION:**

The mask is made of elastic strap, nonwoven fabric on the outer and inner layers and filter material on the middle layer.

**7. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS**

- A visual inspection was made according to EN 149:2001 +A1:2009 for ergonomics.
- Protection levels and degrees are defined by the manufacturer.
- Suitable construction materials were determined by visual inspection according to EN 149:2001 +A1:2009.

**CONFORMITY TO TYPE BASED ON INTERNAL  
PRODUCTON CONTROL PLUS SUPERVISED PRODUCT  
CHECK AT RANDOM INTERVALS  
(MODULE C2, ANNEX VII) (146-21-01-01)**

Notified Body Number: 2841

**8. ANALYSIS AND EVALUATIONS:  
EN 149:2001 +A1:2009**

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Banned Azo Dyes	< 30 mg/kg				Not applicable	-	Not applicable
Part 7.3 Visual inspection	Shall also the marking and the information supplied by the manufacturer				Appropriate	-	PASS
Part 7.4 Packaging	Particle filtering half mask shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.				Appropriate	-	PASS
Part 7.5 Material	When conditioned in accordance 8.3.1 & 8.3.2 the particle filter half mask shall not collapse.				Appropriate	-	PASS
Part 7.6 Cleaning and disinfecting	After cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.				Not applicable	-	Not applicable
Part 7.7 Practical performance	No negative comments should be made by the test subject regarding any of the criteria evaluated.				Appropriate	-	PASS
Part 7.8 Finish of parts	Parts of the device likely to come into contact with the wearer shall have no sharp edge or burrs.				Appropriate	-	PASS

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.9.1 Total inward leakage	At least 46 out of the 50 individual exercise result	<25	<11	<5	See the table below	FFP2	PASS
	At least 8 out of the 10 individual wearer arithmetic means	<22	<8	<2	See the table below	FFP2	PASS

Total Inward Leakage (%)						
	Exercise 1	Exercise 2	Exercise 3	Exercise 4	Exercise 5	Average
Subject 1 (As recieved)	7.3	8.5	7.9	8.4	6.7	7.8
Subject 2 (As recieved)	7.9	5.5	6.0	6.7	6.6	6.5
Subject 3 (As recieved)	7.6	8.8	7.3	8.5	7.9	8.0
Subject 4 (As recieved)	7.5	8.2	8.0	8.5	8.8	8.2
Subject 5 (As recieved)	7.3	8.5	7.9	5.6	7.4	7.3
Subject 6 (After temperature conditioning)	7.6	7.9	6.1	6.7	8.9	7.4
Subject 7 (After temperature conditioning)	7.3	7.3	8.5	7.9	7.4	7.7

Subject 8 (After temperature conditioning)	7.3	8.5	7.9	7.9	7.6	7.8
Subject 9 (After temperature conditioning)	8.5	7.9	6.1	8.4	7.9	7.8
Subject 10 (After temperature conditioning)	6.1	8.4	5.6	7.4	8.4	7.2

**Subject facial dimensions**

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
1	133	132	132	65
2	125	144	116	67
3	126	135	124	75
4	123	133	134	74
5	117	135	122	73
6	122	142	133	66
7	113	132	114	75
8	135	123	123	65
9	122	135	133	74
10	135	142	125	83

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.9.2 Penetration of filter material	Sodium chloride, 95 L/min %, max	% 20	% 6	% 1	See the table below	FFP2	PASS
	Paraffin oil, 95 L/min %, max	% 20	% 6	% 1	See the table below	FFP2	PASS

Penetration of filter material	Sodium Chloride (%)	Paraffin Oil (%)
As recieved	3.9	4.2
As recieved	4.2	4.5
As recieved	4.2	4.4
After the simulated wearing treatment	4.2	4.4
After the simulated wearing treatment	4.1	4.6
After the simulated wearing treatment	4.2	4.5
Mechanical strength and temperature conditioning	5.7	5.2
Mechanical strength and temperature conditioning	5.5	5.8
Mechanical strength and temperature conditioning	5.3	5.5

**CHECK AT RANDOM INTERVALS  
(MODULE C2, ANNEX VII) (146-21-01-01)**

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.10 Compatibility with skin	Materials shall not be known to be likely to cause irritation or any other adverse effect to health				Appropriate	-	PASS
Part 7.11 Flammibility	Mask shall not burn or not to continue to burn for more than 5 s				Flame not seen	-	PASS
Part 7.12 Carbondioxide content of the inhalation air	Shall not exceed an average of % 1				0,88 0,84 0,83	-	PASS
Part 7.13 Head harness	It can be donned and removed easily				Appropriate	-	PASS
Part 7.14 Field of vision	The field of vision shall acceptable in practical performance test.				Appropriate	-	PASS
Part 7.15 Exhalation valve(s)	It shall withstand axially a tensile force of 10 N apply for 10 s. If fitted, shall continue to operate correctly after a continuous exhalation flow of 300 L/min over a period of 30 s.				Not applicable	-	Not applicable

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.16 Breathing Resistance	Inhalation 30L/min	0,6 mbar	0,7 mbar	1,0 mbar	See the table below	FFP2	PASS
	Inhalation 95L/min	2,1 mbar	2,4 mbar	3,0 mbar	See the table below	FFP2	PASS
	Exhalation 160L/min	3,0 mbar	3,0 mbar	3,0 mbar	See the table below	FFP2	PASS

Breathing Resistance (mbar)	Inhalation 30L/min	Inhalation 95L/min
As recieved	0,6	2,2
As recieved	0,6	2,2
As recieved	0,5	2,3
After temperature conditioning	0,5	2,3
After temperature conditioning	0,6	2,3
After temperature conditioning	0,5	2,2
After the simulated wearing treatment	0,5	2,3
After the simulated wearing treatment	0,6	2,3
After the simulated wearing treatment	0,6	2,3

Breathing Resistance 160L/min (mbar)	Facing directly ahead	Facing vertically upwards	Facing vertically downwards	Lying on the left side	Lying on the right side
As recieved	2,8	2,8	2,8	2,7	2,8
As recieved	2,7	2,8	2,8	2,7	2,8
As recieved	2,7	2,8	2,8	2,7	2,8

**CONFORMITY TO TYPE BASED ON INTERNAL  
PRODUCTON CONTROL PLUS SUPERVISED PRODUCT  
CHECK AT RANDOM INTERVALS  
(MODULE C2, ANNEX VII) (146-21-01-01)**

Notified Body Number: 2841

After temperature conditioning	2,7	2,8	2,8	2,8	2,8
After temperature conditioning	2,8	2,8	2,8	2,8	2,8
After temperature conditioning	2,8	2,8	2,8	2,8	2,8
After the simulated wearing treatment	2,8	2,8	2,7	2,8	2,8
After the simulated wearing treatment	2,8	2,8	2,7	2,8	2,8
After the simulated wearing treatment	2,8	2,8	2,8	2,8	2,8

TESTS	PARAMETER	PERFORMANCE LEVELS			RESULTS	PERFORMANCE LEVELS	EVALUATION
		FFP1	FFP2	FFP3			
Part 7.17 Clogging	After clogging the inhalation resistances shall not exceed. (valved)	4 mbar	5 mbar	7 mbar	Not applicable	-	Not applicable
	The exhalation resistance shall not exceed 3 mbar at 160 L/ min continuous flow. (valved)				Not applicable	-	Not applicable
	After clogging the inhalation and exhalation resistances shall not exceed. (valveless)	3 mbar	4 mbar	5 mbar	Not applicable	-	Not applicable
Part 7.18 Demountable part	All demountable parts (if fitted) shall be readily connected and secured were possible by hand.				Not applicable	-	Not applicable

**9. DECISION**

Analysis and examinations UMASK model coded personal protective equipment; Respiratory Protective Devices EN 149:2001 +A1:2009- Filtered Half Masks for Protection Against Particles - Properties, Experiments and Marking standards are evaluated. The homogeneity of the production was monitored at the performance levels determined as a result of the technical evaluations made within the scope of MODULE C2.

**10. ATTACHMENTS**

- Basic Health Safety Requirements
- Risk Assessment
- Test Reports (M-2021-00485)
- User Instruction

**CONTROLLER** : Volkan AKIN

**SING** :

**DATE** : 16.04.2021

