DIWAMEDICAL

DIWAMEDICAL
Skyscreen FFP2 NR 3D Atemschutzmaske 8862 weiss

Technisches Datenblatt

DIWAMEDICAL FFP2 NR 3D Atemschutzmaske 8862 weiss

Produkt-Bezeichnung	DIWAMEDICAL Sky Screen FFP2 NR 3D Atemschutzmaske 8862 weiss
Artikelnummer	MSK-20095
EAN	1 VE - 9180000190121 20 VE – 9180000190138 1000 VE - 9180000190145
Zolltarif-Nummer	6307909311
Angewandte Norm	DIN EN 149:2001 + A1:2009 -- Atemschutzgeräte (filtrierende Halbmasken zum Schutz gegen Partikel)
Klasse	FFP2 = AGW(*) 10-fach (Nicht gegen: Partikel krebserzeugender oder radioaktiver Stoffe, luftgetragene biologische Arbeitsstoffe der Risikogruppe 3 sowie Enzyme) NR = nicht wiederverwendbar (non reusable) / nur für eine Arbeitsschicht nutzbar
Verwendung	Schutz gegen feste und flüssige Partikeln mindergiftiger bzw. gesundheitsschädlicher Stoffe, ohne Ausatemventil
Farbe	Weiss
Verpackung	1000 Stück / Masterkarton
Unterverpackung	20 Stück / Box
Maße	20 Stück Box – 24,0 x 9,0 x 850 cm Masterkarton – 49,0 x 41,0 x 42,5 cm
Gewicht	Masterkarton – 8,70kg
Verpackungsbestandteile	Masterkarton – Wellpappe – PPK 20 Stück Box – Pappe – PPK Folie Einzelverpackung – HDPE – Kunststoff
Kennzeichnung	Markenzeichen des Herstellers (Logo) Produkt-Bezeichnung mit Angabe der Schutzstufe Gültige Norm Gebrauchsanleitung CE-Kennzeichnung mit Kenn-Nummer des Prüfinstitutes (4-stellig) Informationen zur Prüfstelle und zum Hersteller Konditionen für die Lagerung

(*)Nach der Gefahrstoffverordnung (GefStoffV) ist der Arbeitsplatzgrenzwert (AGW) der Grenzwert für die zeitlich gewichtete durchschnittliche Konzentration eines Stoffes in der Luft am Arbeitsplatz in Bezug auf einen gegebenen Referenzzeitraum. Er gibt an, bis zu welcher Konzentration eines Stoffs akute oder chronische schädliche Auswirkungen auf die Gesundheit von Beschäftigten im Allgemeinen nicht zu erwarten sind

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Kärntner Sparkasse
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BIC: KSPKAT2KXXX

Hersteller

Guangdong Golden Leaves Technology Development Co., Ltd.
5 / F, Gebäude 1, Nr. 8, Qiaolonghe EastRoad, Tangxia
TownDongguan, Guangdong, 523730, China

Notifizierte Stelle

CCQS Certification Services Limited
Block1 Blanchardstown Corporate Park, Ballycoo in Raad,
Blachardstown, Dublin15, D15 AKK1, Irland

Importeur

H.M.S. Handel Marketing Service GmbH
Gartenstraße 99
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Einsatzbereiche

FFP2 Masken schützen gegen gesundheitsschädliche Partikel auf Wasser- und Ölbasis, nicht jedoch gegen krebserzeugende Stoffe, radioaktive Partikel, luftgetragene biologische Arbeitsstoff e der Risikogruppe 3 und Enzyme.
Die Gesamtleckage (Undichtigkeit) beträgt maximal 8%, mindestens 94% der Schadstoff e werden aus der Luft gefiltert.
Typische Anwendungen für eine FFP2-Maske sind beispielsweise der Umgang mit Weichholz, Glasfasern, Metall, Kunststoffen (nicht PVC) und Ölnebel. Außerdem schützen sie vor:

- giftigem Staub
- Rauch
- atemwegsreizenden Flüssigkeiten
- atemwegsreizenden Feststoff en
- Bakterien der Risikogruppe 2
- Viren der Risikogruppe 2

Zusatzinformationen zu den Einsatzbereichen, dem Verwendungszweck und der Risikobewertung

- Missachtung dieser Anweisungen oder falsche Anwendung können die Wirksamkeit der Maske reduzieren bzw. Erkrankungen oder dauerhaft e Schäden zur Folge haben.
- Zur Auswahl der richtigen Maske konsultieren Sie eine entsprechende Sicherheitsfachkraft .
- Die Maske ist nur für den einmaligen Gebrauch bestimmt.
- Arbeiten Sie mit der Maske nur, wenn sie richtig sitzt.
- Die Maske soll ausschließlich zum Schutz gegen feste und flüssige Partikel (Feinstäube) eingesetzt werden. Kein Schutz vor Gasen, Giftstoffen, Dämpfen, Lösungsmitteln oder Sauerstoffarmut.
- Kein Einsatz, wenn Art und/oder Konzentration des Gefahrstoff es unbekannt sind.
- Kein Schutz bei Leckage, z.B. wenn sich Gesichtshaare im Bereich der Dichtlinie befinden (Bartträger). Keine Nutzung in explosionsgefährdeter Umgebung.
- Anwendung nur in ausreichend belüfteter Umgebung (Atmosphäre nicht weniger als 17% Sauerstoff).
- Maske nur im Original, ohne Veränderungen benutzen.
- Auswechseln der Maske bei Beschädigungen und starker Verschmutzung (hoher Atemwiderstand).
- Sofortiger Abbruch der Arbeit und Verlassen des Arbeitsplatzes bei Übelkeit, Schwindel oder Atemnot.

Aufsetzanleitung

1. Nehmen Sie die Atemschutzmaske aus der Verpackung, falten Sie diese auf und ziehen Sie die Bänder in beide Richtungen auseinander. Prüfen Sie die Maske optisch auf Beschädigungen
2. Legen Sie die Atemschutzmaske so in die Hand, dass der Nasenbügel nach oben zeigt. Führen Sie nun die Atemschutzmaske an Ihr Gesicht.
3. Zuerst Kinn einführen, danach über die Nase ziehen. Seitliche Ohrbänder fixieren.
4. Für einen festen Sitz muss der Clip im Nasenbereich an die Gesichtskontur angepasst werden. Zeigefinger und Mittelfinger beider Hände auf die Mitte des Nasenclips drücken. Mit beiden Händen gleichzeitig von der Mitte aus den Nasenclip nach unten drücken, bis der Nasenclip am Nasenrücken festklemmt und die Maske angenehm sitzt. Das Drücken des Nasenclips mit nur einer Hand kann die Dichtigkeit der Maske beeinflussen.
5. Vor dem Eintritt in den Arbeitsbereich muss die Dichtigkeit der Maske überprüft werden. Maske mit beiden Händen bedecken und kräftig ausatmen. Bei leichtem Druckaufbau in der Maske (Ausatmen) sollte keine Luft an den Rändern entweichen. Bei richtiger Anwendung bewegt sich das Filtermaterial beim Einatmen leicht.

Lagerung und Transport

Die Sky Screen Partikelfiltrierenden Atemschutzmasken 8862 haben ab dem Herstelldatum eine Lagerdauer von 3 Jahren. Das Ende der Lagerdauer ist auf dem beiliegenden Produktzertifikat angegeben. Überprüfen Sie vor der ersten Verwendung immer, ob das Produkt die angegebene Lagerdauer (Haltbarkeitsdatum) überschritten hat. Das Produkt muss in einer sauberen und trockenen Umgebung innerhalb eines Temperaturbereichs von -30°C bis +70°C und bei einer relativen Luftfeuchtigkeit von < 80 % gelagert werden. Vor direkter Sonneneinstrahlung schützen. Die Maske in der Originalverpackung lagern.

Konformitätsbewertung

Die partikelfiltrierende Halbmaske erfüllt die Anforderungen der europäischen Richtlinie (EU) 2016/425. Baumusterprüfung und Konformitätsbewertungsverfahren erfolgten unter Beteiligung folgender notifizierter Stelle: CCQS Certification Services Limited Block1 Blanchardstown Corporate Park, Ballycoo in Raad, Blachardstown, Dublin15, D15 AKK1, Irland CE 2834

Produktbilder

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BIC: KSPKAT2KXXX

Module B EU Type-Examination Certificate

For the requirements of PPE Regulation 2016/425

Certificate No.: CE-PC-200602-458-01-9B

Certificate holder:	**Guangdong Golden Leaves Technology Development Co., Ltd.** 5/F, Building 2, No.8, Qiaolonghe East Road, Tangxia Town, Dongguan City, Guangdong Province, 523730, China
Product:	**Particle Filtering Half Mask** Detailed product description listed in the Annex
Model(s):	8862
Standard(s):	EN 149:2001+A1:2009 Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking
Issue date:	2020-07-08
Revision date:	2021-01-18
Expiry date:	2021-07-07

The product(s) on this certificate and the Technical File have been assessed and found to be in conformance with the applicable Essential Health and Safety Requirements in Annex II of the PPE regulation 2016/425.
Any changes to the design, manufacturing location or manufacture of the PPE product certified here must be advised to CCQS Certification Services Limited for review.
CE marking shall not be applied until the requirements of all the PPE Regulation 2016/425 and relevant EN Harmonised standards and/or Technical specifications have been met.
If the certified product is Category III then this certificate is only valid if used in conjunction with Conformity Assessment against Module C2 or Module D.
This certificate remains the property of CCQS and maybe withdrawn at any time if it is considered that the equipment is no longer in conformity with the requirements of the PPE Regulation 2016/425.

CE

Approved by Ireland Government as a Notified Body for CE Marking No.2834

ISO 17065 INAB ACCREDITED PRODUCT CERTIFICATION DETAILED IN SCOPE REG NO.6028

Approved by:

CCQS Ireland Certification

Owen Bian - Director

CCQS Certification Services Limited
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If in any doubt about the integrity of this certificate, please contact CCQS by email to verify.

Module B EU Type-Examination Certificate

Annex

For the requirements of PPE Regulation 2016/425

Certificate No.: CE-PC-200602-458-01-9B

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

Model reference	Product description
8862	Filtering facepiece with folded face seal fitted with ear loops with head harness clip, no valves, internal metal nose clip Mask body color: White or Black variant Classification: FFP2 NR Test report no.: WLH0459-2020

Certificate Revision	Revision date	Revision details
A	2020-07-08	Initial issue
B	2021-01-18	Addition of mask variant body color: Black

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Certificate of Module C2 production monitoring for equipment within the scope of Personal Protective Equipment Regulation (EU) 2016/425 Category III

FPC Certificate No.: CE-PC-200602-458-FPC-D

Certificate holder:	**Guangdong Golden Leaves Technology Development Co., Ltd.** 5/F, Building 2, No.8, Qiaolonghe East Road, Tangxia Town, Dongguan City, Guangdong Province, 523730, China
Manufacturing Location:	5/F, Building 2, No.8, Qiaolonghe East Road, Tangxia Town, Dongguan City, Guangdong Province, 523730, China
The scope of the certification for:	**The manufacture of respiratory protective device** See annex for articles covered by this certificate
Validity from:	2020-07-08
Revision date:	2021-01-19
To:	2021-07-07

CCQS Certification Services Limited in its role as a Notified Body for PPE Regulation, is monitoring that the manufacturer is producing PPE in conformity with the type described in the EU type-examination certificate and associated technical file and which satisfies the Essential Health and Safety Requirements of the Regulation.
The equipment covered by this certificate is listed in the accompanying schedule. This certificate is not complete and has no validity without the accompanying schedule and revision index.
The manufacturer is hereby authorized to affix our Notified Body number, 2834, to each item of PPE mentioned in the schedule which accompanies this certificate whilst this certificate remains valid.
This certificate and the accompanying schedule remain the property of CCQS and maybe withdrawn or revised at any time if CCQS considers that the equipment is no longer in conformity with the requirements of the Regulation.

CE

Approved by Ireland Government as a Notified Body for CE Marking No.2834

ISO 17065 INAB ACCREDITED PRODUCT CERTIFICATION DETAILED IN SCOPE REG NO.6028

Approved by:

CCQS Ireland Certification

Owen Bian, Director

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If in any doubt about the integrity of this certificate, please contact CCQS by email to verify.

Schedule of Module C2 production monitoring for equipment within the scope of Personal Protective Equipment Regulation (EU) 2016/425 Category III

Schedule to CCQS FPC Certificate No.: CE-PC-200602-458-FPC-D

Product reference and description		Reference standard
Particle Filtering Half Mask	Model: 8862	EN 149:2001+A1:2009
Particle Filtering Half Mask	Model: 8861	EN 149:2001+A1:2009
Particle Filtering Half Mask	Model: 8865	EN 149:2001+A1:2009
Particle Filtering Half Mask	Model: 8861V	EN 149:2001+A1:2009

Certificate Revision	Revision date	Revision details
A	2020-07-08	Initial issue
B	2020-07-21	Addition of model: 8861
C	2021-01-11	Addition of model: 8865
D	2021-01-19	Addition of model: 8861V

This schedule has no validity without the accompanying certificate.
This schedule and the accompanying certificate remain the property of CCQS and maybe withdrawn or revised at any time if CCQS considers that the equipment is no longer in conformity with the requirements of the Regulation.

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The results of tests, calibrations and/or measurements included in this document are traceable to Chinese/national standards.
CNAS is a signatory to the ILAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.

TEST REPORT

EN 149:2001+A1:2009
Filtering half masks to protect against particles

Report no:	**WLH0459-2020**
Product:	**Filtering Half Mask**
Model(s):	**8862**
Main components:	**Mask body, without exhalation valve**
Date(s)of tests:	**15th May～02nd Jun 2020**

Client	**Manufacturer**
Guangdong Golden Leaves Technology Development Co., Ltd.	**Guangdong Golden Leaves Technology Development Co., Ltd.** Building 2, No.8, Qiaolonghe East Road, Tangxia Town, Dongguan City, Guangdong Province, 523730, China Contact: / E-mail: / Phone: 13543715004
Client order：/ Order(s) received: May, 2020	

Conditions:

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The results described in this test report refer to the mentioned test samples, exclusively. A copy of the test report, complete or in extracts, is not allowed without any written permission of the CASST.

Any objection should be submitted within 2 weeks from the date of receipt of the report, and it will not be accepted after the deadline.

Specimens will be disposed of 4 weeks from the date of this report, unless otherwise instructed.

Signed: 张明明/ZhangMingming, Authorized Signatory

Issued: 2020-06-02

中国安全生产科学研究院/China Academy of Safety Science and Technology
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Sino-Japanese Cooperative Respiratory Protection Laboratory
Designated Testing Laboratory of the Certification of LA Mark in China

Summary of assessment*

Clause		Assessment
	Model:	**8862**
7.4	Packaging	NRq
7.5	Material	Pass
7.6	Cleaning and disinfecting	NAp
7.7	Practical performance	Pass
7.8	Finish of parts	Pass
7.9.1	Total inward leakage	Pass
7.9.2	Penetration of filter material: Sodium chloride	Pass
7.9.2	Penetration of filter material: Paraffin oil	Pass
7.10	Compatibility with skin	Pass
7.11	Flammability	Pass
7.12	Carbon dioxide content of the inhalation air	Pass
7.13	Head harness	Pass
7.14	Field of vision	Pass
7.15	Exhalation valve(s)	NAp
7.16	Breathing resistance	Pass
7.17	Clogging	NRq
7.18	Demountable parts	Pass
9	Marking	NRq
10	Information to be supplied by the manufacturer	NRq

Key

	Shading shows the clauses requested.
NRq	The clauses were not requested.
Pass	Requirement satisfied.
Ltd	Testing requested was insufficient completely to verify compliance with the clause. Refer to the "Result details" section for more information.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
NAs	Assessment not carried out.
NAp	Requirement not applicable.
NT	Requested but not tested due to early termination following failure.

* Assessment relates only to those specimens which were tested and are the subject of this report.

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Product characteristics

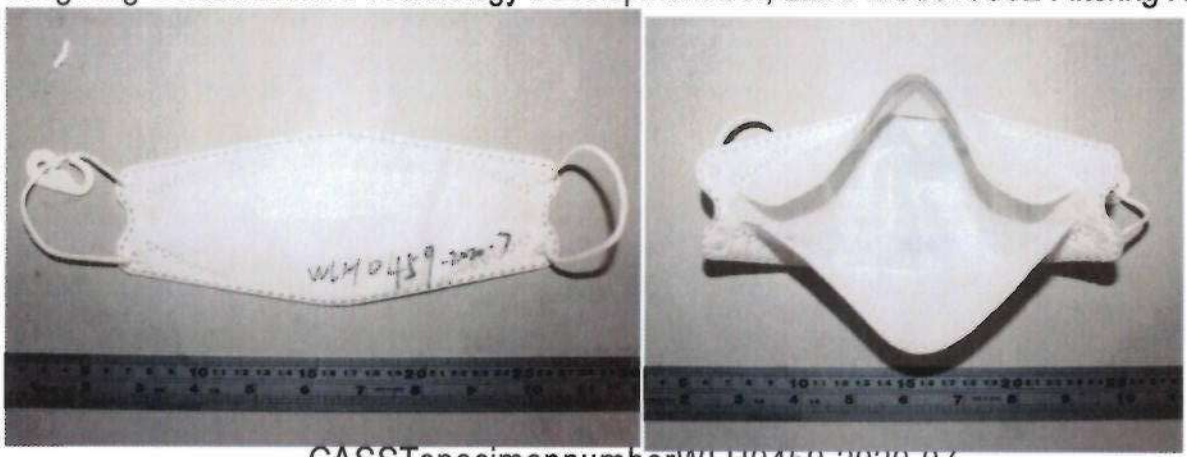
Property	Characteristic
Model	8862
Classification claimed	FFP2 NR
Exhalation valve(s)	-

Submission details

Product	Quantity	Date received	Specimen No.
8862 Filtering Half Mask	90	15th May 2020	WLH0459-2020-01 to -90

Photographs of the products tested

Guangdong Golden Leaves Technology Development Co., Ltd.'s model 8862 Filtering Half Mask



CASSTspecimennumberWLH0459-2020-07

Procedures

Specimens were selected at random from the submission(s) detailed above.

Testing was performed in accordance with EN 149:2001 incorporating Corrigendum No. 1 (January 2003), and amendment A1 (2009) unless otherwise specified below. Reference should be made to the standard when reading this report.

Unless stated otherwise, specimens were tested in the condition as received.

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Result details

7.4 Packaging NRq

Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.

7.5 Material Pass[1]

Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used.

After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.

When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.

Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.

Note 1: In accordance with the requirement.
Specimens -04, -24, -42 were conditioned in accordance with 8.3.1，None of the specimens conditioned suffered mechanical failure or collapse.
Specimens -16, -44, -10 were conditioned in accordance with 8.3.2，None of the specimens conditioned suffered collapse.

7.6 Cleaning and disinfecting NAp[2]

If the particle filtering half mask is designed to be re-usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer.

With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.

Note 2: Single shift use only.

7.7 Practical performance Pass[3]

The particle filtering half mask shall undergo practical performance tests under realistic conditions.

Note 3: No imperfections.

Specimen and subject details:

Specimen	Subject
-06	LCF
-40	TJ

7.8 Finish of parts Pass[4]

Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.

Note 4: None of the specimens used in limited laboratory testing undertaken showed the evidence of sharp edges or burrs.

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7.9.1 Total inward leakage(%) **Pass**[5]

For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than: 25 % for FFP1, **11 % for FFP2**, 5 % for FFP3;

and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than: 22 % for FFP1, **8 % for FFP2**, 2 % for FFP3.

Note 5: All of the 50 individual exercise results were not greater than 11%; All of the 10 individual wearer arithmetic means were not greater than 8%. Detailed data are showed below.

Subject	Specimen	Cond	Walk	Head side/ side	Head up/down	Talk	Walk	Mean
LZM	-11	AR	6.7	8.8	5.2	9.2	6.9	7.3
TJ	-32	AR	7.9	6.7	3.4	2.2	1.1	4.3
CJW	-59	AR	3.1	6.1	7.1	2.0	1.7	4.0
ZMM	-65	AR	4.1	7.8	8.2	4.6	4.6	5.9
YZF	-53	AR	1.2	4.6	5.5	3.3	1.9	3.3
GJB	-05	TC	3.9	7.4	10.2	4.3	4.4	6.0
TLX	-41	TC	2.6	5.3	6.3	3.2	1.4	3.8
SM	-15	TC	3.2	8.2	8.5	3.5	3.6	5.4
LCF	-69	TC	6.3	8.3	8.7	4.8	6.5	6.9
TS	-47	TC	3.2	6.3	7.4	2.1	1.0	4.0
Maximum permitted			11					8

Subject facial dimensions:

Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
LZM	118	157	124	44
TJ	105	151	110	52
CJW	114	147	101	65
ZMM	114	157	119	50
YZF	113	151	106	48
GJB	109	154	109	57
TLX	104	153	112	40
SM	116	144	109	49
LCF	119	165	121	56
TS	97	146	102	51

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7.9.2 Penetration of filter material **Pass**

The penetration of the filter of the particle filtering half mask shall meet the requirements:

Classification	Maximum penetration of test aerosol	
	Sodium chloride test 95 l/min, %, Max	Paraffin oil test 95 l/min, %, Max
FFP1	20	20
FFP2	**6**	**6**
FFP3	1	1

Sodium chloride test results:（Pass）

Specimen	Condition	Penetration (%)	
		After 3 minutes	Max. during exposure
-20	A.R.	0.19	
-49		0.39	
-66		0.93	
-43	S.W.	0.18	
-21		0.46	
-72		0.51	
-52	M.S. + T.C.	1.89	1.89
-45		2.34	2.34
-36		1.27	1.27
Maximum permitted		6	

Paraffin oil test results: （Pass）

Specimen	Condition	Penetration (%)	
		After 3 minutes	Max. during exposure
-22	A.R.	0.18	
-64		0.16	
-73		0.18	
-26	S.W.	0.40	
-12		0.15	
-60		0.22	
-68	M.S. + T.C.	0.14	0.64
-62		0.16	1.23
-76		0.63	2.09
Maximum permitted		6	

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7.10 Compatibility with skin

Pass[6]

Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.

Note 6: Specimens -30, -38, -71, -84, -55 (A.R.) and specimens -50, -56, -07, -79, -82 (T.C.) were tested. No irritation or any other adverse effect to health.

7.11 Flammability

Pass

When tested, the particle filtering half mask shall not burn or not to continue to burn for more than **5 s** after removal from the flame.

Specimen	Condition	Results
-13	A.R.	burn for 0.7 s
-25		burn for 0.8 s
-74	T.C.	burn for 0.4 s
-19		burn for 0.5 s

7.12 Carbon dioxide content of the inhalation air

Pass

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume).

Specimen	CO_2 (%)
-28	0.37
-35	0.38
-54	0.38
Maximum permitted	1.0

7.13 Head harness

Pass[7]

The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.

The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.

Note 7: Specimens -14, -48, -70, -75, -29 (A.R.) and specimens -18, -57, -78, -08, -39 (T.C.) were tested. Head harness (ear straps with auxiliary hook) can be donned and removed easily, adjustable or self-adjusting and have sufficiently robust to hold the face mask firmly. The product satisfied the total inward leakage requirements. See 7.9.1 for results.

7.14 Field of vision

Pass[8]

The field of vision is acceptable if determined so in practical performance tests.

Note 8: Specimens -09 and -58 (A.R.) were tested. Pass the practical performance tests and no adverse comments.

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7.15 Exhalation valve

NAp

A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.

If an exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device that may be necessary for the particle filtering half mask to comply with 7.9.

Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.

When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.

7.16 Breathing resistance

Pass[9]

Classification	Maximum permitted resistance (mbar)		
	inhalation		exhalation
	30 l/min	95 l/min	160 l/min or (25 cycles/min×2.0 l/stroke)
FFP1	0.6	2.1	3.0
FFP2	**0.7**	**2.4**	**3.0**
FFP3	1.0	3.0	3.0

Note 9: FFP2 Filtering face mask. Test results are detailed below.

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Specimen	Condition	Inhalation resistance (mbar)		Exhalation resistance (mbar)				
		At 30 l/min	At 95 l/min	Breathing machine (25 cycles/min×2.0 l/stroke)				
				A	B	C	D	E
-03	A.R.	0.30	1.17	2.17	2.08	2.04	2.08	2.16
-67		0.29	1.15	2.14	2.15	2.12	2.09	2.11
-51		0.28	1.09	2.06	2.01	1.98	1.99	2.03
-86	T.C.	0.27	1.06	2.01	2.03	1.94	2.03	2.01
-17		0.27	1.08	2.06	2.04	2.01	1.98	2.01
-46		0.24	1.00	1.96	1.94	2.01	1.98	1.99
-27	S.W.	0.30	1.21	2.27	2.24	2.21	2.21	2.23
-63		0.32	1.27	2.33	2.31	2.29	2.26	2.29
-23		0.31	1.25	2.28	2.31	2.31	2.26	2.27
	A.R. + F.C.							
	T.C. + F.C.							
Maximum permitted		0.7	2.4	3.0				

A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side.

7.17 Clogging NRq[10]

7.17.2 Breathing resistance

Valved particle filtering half masks:

After clogging the inhalation resistances shall not exceed,

FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar, at 95 l/min continuous flow;

The exhalation resistance shall not exceed 3 mbar at 160 l/min continuous flow.

Valveless particle filtering half masks:

After clogging the inhalation and exhalation resistances shall not exceed,

FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar, at 95 l/min continuous flow.

7.17.3 Penetration of filter material

All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements given in 7.9.2, for the Penetration test according to EN 13274-7, after the clogging treatment.

Note 10: Single shift use only.

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7.18 Demountable parts **Pass**[11]

All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.

Note 11: Head harness auxiliary hook were used, and in accordance with the requirement.

9 Marking **NRq**

9.1 Packaging

The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.

9.1.1 The name, trademark or other means of identification of the manufacturer or supplier.

9.1.2 Type-identifying marking.

9.1.3 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then:

"NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or

"R" if the particle filtering half mask is re-usable. Example: FFP2 R D."

9.1.4 The number and year of publication of this European Standard.

9.1.5 At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.

9.1.6 The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.

9.1.7 The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.

9.1.8 The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D". This letter shall follow the classification marking preceded by a single space.

9.2 Particle filtering half mask

Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:

9.2.1 The name, trademark or other means of identification of the manufacturer or supplier.

9.2.2 Type-identifying marking.

9.2.3 The number and year of publication of this European Standard.

9.2.4 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then:

"NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or

"R" if the particle filtering half mask is re-usable. Example: FFP2 R D."

9.2.5 If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the classification marking preceded by a single space (see 9.2.4).

Examples FFP3 NR D, FFP2 R D"

9.2.6 Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified

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10 Information to be supplied by the manufacturer **NRq**

10.1 Information supplied by the manufacturer shall accompany every smallest commercial available package.

10.2 Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination.

10.3 The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on:

application/limitations; the meaning of any colour coding; checks prior to use; donning, fitting; use; maintenance (e.g. cleaning, disinfecting), if applicable; storage; the meaning of any symbols/pictograms used of the equipment.

10.4 The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added.

10.5 Warning shall be given against problems likely to be encountered, for example:

- fit of particle filtering half mask (check prior to use);

- it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal;

- air quality (contaminants, oxygen deficiency);

- use of equipment in explosive atmosphere.

10.6 The information shall provide recommendations as to when the particle filtering half mask shall be discarded.

10.7 For devices marked "NR", a warning shall be given that the particle filtering half mask shall not be used for more than one shift."

End of Test Report.

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