Occupational Safety Research Institute, v.v.i.
Notified Body 1024
Jeruzalémská 1283/9, CZ - 110 00 Praha 1

Test Report according to Regulation (EU) 2016/425 *

Report on product check according to Module C2

1024/ZK-045/2024

Pages: 5 Number of copies: see distribution list

Annexes: 0

I. Source data

Name:	**Respirator Great Protection**	
Type:	**TOP2**	
PPE category:	III. according to Regulation (EU) 2016/425 Annex I	
Manufacturer:	Taste One s.r.o., Kaprova 42/14, Praha 110 00	
Application:	S-185/2024	dated: 04. 09. 2024
Contract:	107/2024	dated: 05. 11. 2024
Certificate:	1024/E-020/2022	dated: 10. 05. 2022
Assessed by:	Ing. J. Foud	

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signature

Certificate remains valid

About continued validity of certificate decided: Ing. J. Tilhon, Ph.D., LL.M.

Výzkumný ústav bezpečnosti práce, v. v. i. Oznámený subjekt 1024 - Notified Body 1024 VÚBP Jeruzalémská 1283/9 110 00 Praha 1 Czech Republic

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signature

Date of report issue: 04. 12. 2024

Distribution list: 1. Manufacturer
2. NB 1024 archive in electronic form (PDF)

The product check was performed according to Regulation (EU) 2016/425, Module C2 Conformity to type based on internal production control plus supervised product checks at random intervals

*This Report has been issued in Czech and English versions. Both versions have the same validity.

II. Basic information

1. Product description

Particle filtering half mask **Great Protection TOP 2** FFP2 NR provides the protection of the respiratory system of a user against solid and liquid aerosols in the air in accordance with the information supplied by the manufacturer.

As part of the annual check, particle filtering half mask TOP FFP2 NR with meltblown from a new supplier were assessed. According to the manufacturer's statement, the weight, number of filter layers and other components of the respirator remained unchanged.

2. Sample withdrawal

Samples of the filtering half mask TOP2 for laboratory tests were taken on 20th September 2024 and 20th October 2024 in the number of 20 and 20 pieces. The samples were registered in the Laboratory Register under numbers 850 – 869 (new meltblown) and 936 – 955 (original meltblown).

III. List of submitted technical documentation

According to the manufacturer's statement, there has been no change in the product since the certification, with the exception of a change in the supplier of the meltblown filtering component.

The submitted technical documentation was found to be complete according to Regulation (EU) 2016/425 ANNEX III and it has been adequate for the assessment of the conformity with the technical requirements mentioned in this Regulation.

IV. Level determination of protective properties and safety function of the product

The Certificate no. 1024/E-020/2022 (NB 1024) has been issued on the product. The measurement results are described in the Final report no. 1024/ZZ-018/2022.

The check of the PPE conformity with the certified type was performed according to EN 149:2001+A1:2009 Respiratory protective devices. Filtering half masks. Requirements, testing, marking (idt. ČSN EN 149:2002+A1:2009 on the basis of the Application no. S-185/2024 and the Contract no. 107/2024.
The selected tests on the samples were carried out according to ČSN EN 149:2002+A1:2009).

8.2	visual inspection
8.3.2	temperature conditioning
8.3.3	mechanical strength
8.9.1	inhalation resistance
8.9.2	exhalation resistance
8.11	penetration of filter material – paraffin oil aerosol and NaCl aerosol

The numbering of articles in the paragraph "Test results" is consistent with the above-mentioned standard numbering.

V. Tests results

7.3 Visual inspection
Requirement: The visual inspection shall also include the marking and the information supplied by the manufacturer.
Discovered: Particle filtering half mask have no sharp parts or burrs. The marking meets the requirements of the standard.
Evaluation: Samples have satisfied the requirement

7.5 Material

Requirement: 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 the temperature conditioning 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.
Discovered: After test of temperature resistance particle filtering half masks show no visible changes. After the mechanical resistance test, particle filtering half masks show no mechanical flaws.
Evaluation: Samples have satisfied the requirement

7.9.2 Penetration of filter material

Requirement: The penetration of NaCi and paraffin oil aerosol shall not exceed for class FFP2 the value of 6%
Discovered:
Initial penetration of NaCl
Original meltblown

sample	condition	penetration %
939	MS+TC	0,47
940	MS+TC	0,08
941	MS+TC	0,05

Notice: MS - Mechanical strength
TC - Temperature conditioned

New meltblown

sample	condition	penetration %
850	MS+TC	0,03
856	MS+TC	0,03
857	MS+TC	0,06

The highest measured value of NaCl aerosol penetration
Original meltblown

sample	conditioning	penetration %	time of the highest measured value in min
939	MS+TC	0,47	3
940	MS+TC	0,08	3
941	MS+TC	0,05	3

New meltblown

sample	conditioning	penetration %	time of the highest measured value in min
850	MS+TC	0,03	3
856	MS+TC	0,08	3
857	MS+TC	0,06	3

Initional penetration of parafin oil aerosol
Original meltblown

sample	conditioning	penetration %
936	MS+TC	0,30
937	MS+TC	0,26
938	MS+TC	0,32

New meltblown

sample	conditioning	penetration %
850	MS+TC	0,03
856	MS+TC	0,03
857	MS+TC	0,06

Penetration of paraffin oil after exposition of 120 mg oil
Original meltblown

sample	conditioning	penetration %
936	MS+TC	1,2
937	MS+TC	1,2
938	MS+TC	1,3

New meltblown

sample	conditioning	penetration %
853	MS+TC	0,60
854	MS+TC	0,54
855	MS+TC	0,35

Evaluation: Samples have satisfied the requirement

7.16 Breathing resistance
Requirement: The inhalation resistance for class FFP2 shall not exceed 70 Pa at flow of 30 l/min and 240 Pa at flow of 95 l/min.

Discovered:
Inhalation resistance
Original meltblown

sample	condition	resistance Pa	
		at 30 l/min	at 95 l/min
953	AR	52	177
954	AR	50	180
955	AR	48	180

New meltblown

sample	condition	resistance Pa	
		at 30 l/min	at 95 l/min
867	AR	49	170
868	AR	48	170
869	AR	49	169

Discovered:
Requirement: The exhalation resistance for classes FFP2 shall not exceed 300 Pa at flow of 160 l/min.
Exhalation resistance
Original meltblown

sample	condition	position				
		ahead	down	up	left	right
		Pa	Pa	Pa	Pa	Pa
953	AR	210	206	208	209	204
954	AR	220	216	221	214	216
955	AR	225	221	223	218	215

New meltblown

sample	condition	position				
		ahead	down	up	left	right
		Pa	Pa	Pa	Pa	Pa
867	AR	205	200	202	203	201
868	AR	225	220	222	218	222
869	AR	215	211	210	214	213

Evaluation: Samples have satisfied the requirement

Non-homogeneity checking of production

The non-homogeneity checking of the production was also carried out within the check. The client has chosen the procedure - once per year, take sufficient samples.
The non-homogeneity was not found within the check.

VI. Conformity assessment to the essential requirements

The relevant requirements referred to Regulation (EU) 2016/425 ANNEX II, applicable to the final product, were assessed. The harmonized standard EN 149:2001+A1:2009 has been used during the assessment.

The check has confirmed that the tested personal protective equipment

conforms to the type described in the Certificate no. 1024/E-020/2022

and continues to satisfy the relevant essential requirements of Regulation (EU) 2016/425, on personal protective equipment.

VII. List of documents necessary for the Report elaboration

1. Regulation (EU) 2016/425 of the European Parliament and of the Council on personal protective equipment and repealing Council Directive 89/686/EEC
2. Application for check no. S-185/2024 dated 04. 09. 2024
3. Contract about check no. 107/2024 dated 05. 11. 2024
4. Test report no. 140/2024 dated 31. 10. 2024
5. Final report no. 1024/ZZ-018/2022 dated 10. 05. 2022
6. EU type examination certificate no. 1024/E-020/2022 dated 10. 05. 2022
7. Declarations of manufacturer
8. EN 149:2001+A1:2009 Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking (idt. ČSN EN 149:2002+A1:2009, ČSN EN 149+A1 OPRAVA 1:2018)