

# GÉPTESZT Kft.

Notified Body No. 2233 registered in the European Union

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## PERSONAL PROTECTIVE EQUIPMENT EU TYPE-EXAMINATION TEST REPORT

**EN 149:2001+A1:2009**  
**Particle filtering half mask**

The examination and testing of Personal Protective Equipment were carried out in accordance with  
**MSZ EN ISO/IEC 17025:2005** standard  
by GÉPTESZT Kft. Notified Body, identified under number 2233 in the EU

**Customer:** SARA BSK  
Address: Via M.R. Ferrari 142, 29010, Pontenure (PC), ITALY

**Model:** SR 9002

**Classification:** FFP2 NR

**Exhalation valve:** NO

**Inhalation valve:** NO

**Uses:** non reusable

**Project number:** GT182

**Test report number:** VD35/182/2012/E/2233

**Project worksheet number:** VD-34-2020-182

**Date of the test:** 2020.11.17-11.27.

**Samples received date:** 2020.11.17.

**Sample numbers:** 182-1 - 182-45

**Attachment:** no

**Issued:** Budapest, 2020.12.02.

GÉPTESZT KFT.  
EVE Vizsgáló Laboratórium  
NB 2233  
1037 Budapest, Jablonka u. 79.  
Labor: 1032 Budapest, Gyenes u.12.

A handwritten signature in blue ink, appearing to read 'Budai Dániel', is written over a dotted line.

Budai Dániel  
Director of Laboratory



**Relevant standards, directives and requirements:**

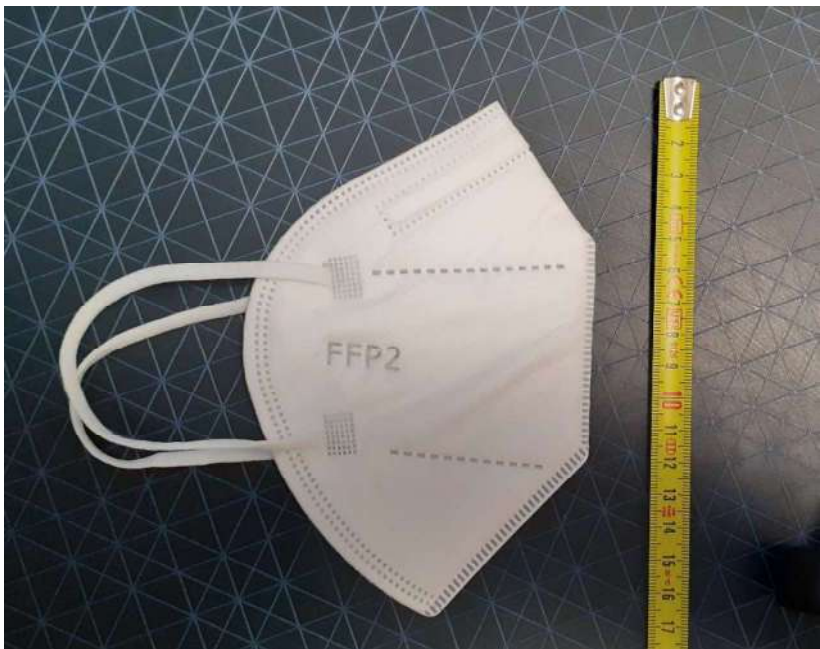
**EN 149:2001+A1:2009 Filtering half masks to protect against particles**

**Description of the sample**

The foldable mask is sold in white colour and consists of 5 layers:

1. layer 1: spunbond non-woven fabric
2. layer 2: meltblown non-woven fabric
3. layer 3: meltblown non-woven fabric
4. layer 4: Hot Wind, meltblown non-woven fabric
5. layer 5: spunbond non-woven fabric

The nose clip is made of two stainless steel wires wrapped by plastic The elastic headharness is made of nylon.



**Short description of EU-type tests:**

Requirement	Test method	Description	Result
7.4	8.2	Packaging	Passed
7.5	8.2	Material	Passed
7.6	8.11	Cleaning and disinfecting	NA
7.7	8.4	Practical performance	Passed
7.8	8.2	Finish of parts	Passed
7.9.1	8.5	Total inward leakage	Passed
7.9.2	8.11	Penetration of filter material: NaCl	Passed
7.9.2	8.11	Penetration of filter material: paraffin oil	Passed
7.10	8.4 and 8.5	Compatibility with skin	Passed
7.11	8.6	Flammability	Passed
7.12	8.7	Carbon dioxide content of the inhalation air	Passed
7.13	8.4 and 8.5	Head harness	Passed
7.14	8.4	Field of vision	Passed
7.15	8.2, 8.3.4, 8.8	Exhalation valve(s)	NA
7.16	8.9	Breathing resistance	Passed
7.17	8.10	Clogging	NA
7.18	8.2	Demountable parts	NA
9	-	Marking	Passed
10	-	Information to be supplied by the manufacturer	Passed

**Analysis and details of EU-type test results:**

**7.4 Packaging**

Each mask is packed in a plastic bag and then placed in paper boxes (20 pcs).

The packaging gives enough protection against mechanical damage or contamination.

**PASSED**

**7.5 Material**

— conditioning S.W.: Sample nr: 182-25 to 182-27

None of the particle filtering half masks have suffered mechanical failure of the facepiece or straps.

— conditioning T.C.: Sample nr.: 182-8 to 182-10

Particle filtering half masks did not collapse.

**PASSED**

**7.6 Cleaning and disinfecting (only for reusable masks)**

Because the mask is non-reusable, this test was not carried out.

**NA**

**7.7 Practical performance**

The particle filtering half masks are tested by practical performance tests under realistic conditions.

1. Walking test for 10 min
2. Work simulation tests:
  - walking on the level with headroom of  $(1,3 \pm 0,2)$  m for 5 min;
  - crawling on the level with headroom of  $(0,70 \pm 0,05)$  m for 5 min;
  - filling a small basket 20x in 10 min;

Subjects	Samples	Conditioning	Result
TLA	182-1	A.R.	PASSED
NT	182-2	A.R.	PASSED

There were not any imperfections related to the wearer's acceptance.

**PASSED**

**7.8 Finish of parts**

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

**PASSED**

**7.9.1 Total inward leakage**

With sodium chloride aerosol. The masks were in good condition.

Number of subjects were replaced, because of not fitting/facial dimensions: .....0.....

Subjects facial dimensions				
Subject	Face length, mm	Face width, mm	Face depth, mm	Mouth width, mm
DF	108	136	105	55
NA	130	120	130	50
BD	120	130	135	55
SA	100	120	120	50
MD	117	120	108	60
LA	123	140	105	60
BK	128	150	111	51
TLI	125	165	140	75
BP	120	125	116	57
KCS	113	143	127	54

Subject	Sample	Cond.	Total inward leakage, %					Mean, %
			Walk	Head left/right	Head up/down	Talk	Walk	
DF	182-3	A.R.	2,09	2,31	2,16	4,65	2,17	2,68
NA	182-4	A.R.	2,41	2	2,15	4,49	2,05	2,62
BD	182-5	A.R.	2,41	2,05	2,7	4,96	1,92	2,81
SA	182-6	A.R.	4,89	5,51	5,01	8,45	5,29	5,83
MD	182-7	A.R.	3,21	3,29	3,12	3,56	2,95	3,23
LA	182-8	T.C.	1,86	1,84	1,82	3,97	1,82	2,26
BK	182-9	T.C.	2,38	2,4	2,54	5,23	2,37	2,98
TLI	182-10	T.C.	4,79	5,98	5,37	8,5	5,41	6,01
BP	182-11	T.C.	4,1	3,93	3,82	7,31	4,42	4,72
KCS	182-12	T.C.	3,67	3,88	3,54	4,13	3,51	3,75

50 out of the 50 individual exercise results for total inward leakage were not greater than 11 % and 10 out of the 10 individual wearer arithmetic means for the total inward leakage were not greater than 8%.

**PASSED**

**7.9.2 Penetration of filter material: NaCl**

NaCl aerosol: concentration: 4-12 mg/m<sup>3</sup>, flow: 95 l/min

Sample	Conditioning	Penetration, %	Exposure, %
182-13	A.R.	0.70	NA
182-14	A.R.	0.73	NA
182-15	A.R.	0.71	NA
182-16	S.W.	0.80	NA
182-17	S.W.	0.84	NA
182-18	S.W.	0.84	NA
182-19	M.S→T.C.	NA	0.72
182-20	M.S→T.C.	NA	0.73
182-21	M.S→T.C.	NA	0.67
<b>Maximum permitted:</b>		<b>6 %</b>	

The penetration of the filter material did not exceed the maximum permitted 6 % in case of any masks.

**PASSED**

**7.9.2 Penetration of filter material: paraffin oil**

Paraffin aerosol: concentration: 15-25 mg/m<sup>3</sup>, flow: 95 l/min

Sample	Conditioning	Penetration, %	Exposure, %
182-22	A.R.	1.89	NA
182-23	A.R.	2.02	NA
182-24	A.R.	2.10	NA
182-25	S.W.	1.56	NA
182-26	S.W.	1.90	NA
182-27	S.W.	1.92	NA
182-28	M.S→T.C.	NA	1.47
182-29	M.S→T.C.	NA	1.45
182-30	M.S→T.C.	NA	1.78
<b>Maximum permitted:</b>		<b>6 %</b>	

The penetration of the filter material did not exceed the maximum permitted 6 % in case of any masks.

**PASSED**

**7.10 Compatibility with skin**

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

During the Practical performance test there were no problems.

During the Total inward leakage test there were no problems.

**PASSED**

**7.11 Flammability**

Sample	Conditioning
182-30	T.C.
182-28	T.C.
182-23	A.R.
182-22	A.R.

The materials used do not present a danger for the wearer and are not of highly flammable nature. The samples did not burn.

**PASSED**

**7.12 Carbon dioxide content of the inhalation air**

Air supplied from breathing machine: 25 cycles/min and 2,0 l/stroke, carbon dioxide content of exhaled air 5 V/V%, air flow 0,5 m/s.

Ambient carbon dioxide level: 0,08 % (less than 0,1 %.)

Sample	CO <sub>2</sub> V/V%
182-43	0.65
182-44	0.63
182-45	0.67

The carbon dioxide content of the inhalation air (dead space) did not exceed an average of 1,0 V/V %.

**PASSED**

**7.13 Head harness**

There were no adverse comments regarding security following limited practical performance and total inward leakage testing.

The product satisfied the total inward leakage requirements. See part 7.9.1. for results.

**PASSED**

**7.14 Field of vision**

Sample
182-1
182-2

During the practical performance test the field of vision was not affected adversely by wearing mask.  
**PASSED**

**7.15 Exhalation valve(s)**

NA

**7.16 Breathing resistance**

Sample	Conditioning	Inhalation resistance		Exhalation resistance 160 l/min				
		30 l/min	95 l/min	ahead	vert. upwards	vert. downwards	left	right
182-34	A.R.	0.43	1.25	2.05	2.06	2.05	2.05	2.04
182-35	A.R.	0.45	1.29	2.01	2.03	2.02	2.01	2.02
182-36	A.R.	0.41	1.26	2.04	2.05	2.04	2.04	2.04
182-37	T.C	0.38	1.15	1.84	1.85	1.84	1.83	1.84
182-38	T.C	0.39	1.12	1.86	1.86	1.86	1.87	1.86
182-39	T.C	0.40	1.16	1.80	1.92	1.91	1.90	1.90
182-40	S.W.	0.41	1.25	2.06	2.08	2.06	2.05	2.05
182-41	S.W.	0.46	1.28	2.04	2.05	2.04	2.04	2.03
182-42	S.W.	0.45	1.29	2.11	2.12	2.11	2.10	2.09
<b>Maximum permitted</b>		<b>0,7</b>	<b>2,4</b>	<b>3,0</b>				

None of the measured values exceeded the maximum values.

**PASSED**

**7.17 Clogging**

The optional dolomit clogging test was not required by manufacturer.

NA

**9. Marking**

The marking information is complete and clearly and durably marked on the packaging.

The marking information is complete and clearly and durably marked on the particle filtering half mask.

**PASSED**

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

Information to be supplied by the manufacturer accompany every smallest commercial available package and contain all information necessary for trained and qualified persons.

**PASSED**

**Result of EU-type test:**

The above described **SR 9002 particle filtering half mask** at the time of the test **is conformed** to the test requirements of EN 149:2001+A1:2009 class FFP2 NR at the close date of test report.

E N D O F T H E T E S T R E P O R T



## EU TYPE-EXAMINATION CERTIFICATE EXTENSION

Name of Certification Body:	GÉPTESZT Kft.	Phone:	+3612503531
EU notified body identification number:	2233	Fax:	+3614300888
Address:	Jablonka St. 79, 1037 Budapest, HUNGARY	E-mail:	gepteszt@gepteszt.hu

Present EU type-examination certificate extension is valid only with:

EU type-examination certificate No.: TD11/GT182/200/2012/E/2233  
Record of examination No.: VD35/182/2012/E/2233 and VD36/182/X1/2102/E/223

The EU type-examination certificate is not transferable.

1. Product designation: **Particle filtering half mask**  
*SR 9002 FFP2 non reusable particle filtering half mask without valves in white, gray, black, blue, pink and fucsia colours.*  
Serial / Model No.: SR 9002  
Year of production: 2021
  2. Name and address of the holder of the certificate (Manufacturer or authorized representative):  
**SARA BSK SRL**  
Address: Via M.R. Ferrari 142, 29010, Pontenure (PC), ITALY
  3. Name and address of the Manufacturer: same as above (point 2)
  4. Protecting ability of PPE: Personal protective equipment providing respiratory system protection.  
Category III. EN 149:2001+A1:2009 class FFP2 NR
  5. Identification data of the records of examination for compliance of PPE:
    - a. Certification Body: GÉPTESZT Kft.  
Record of examination: VD35/182/2012/E/2233 and VD36/182/X1/2102/E/223
    - b. Identification of body: NB2233
  6. Documentation of the compliance with the essential health and safety protection requirements:  
Fully applied nationalized standard(s) during the production of the PPE:  
Category III. EN 149:2001+A1:2009 class FFP2 NR
- Annexes:
- Users information
  - Technical file
7. Requirements for indicating the CE mark: The size of the CE marking may not be less than 5 mm. The CE mark must be located on the product label
  8. Further notes relating to the PPE: Manufacturer cannot place on the market or bring into service any Category III PPE without having established a formal agreement with a Notified Body about conformity to type assessment.

The EU type-examination certificate will be withdrawn in case of existence of conditions stated in Article 32 point 5. and in Annex V. 7.7. of regulation (EU) 2016/425 of the European Parliament of the Council.

Legal remedy can be applied against the condition stated in the EU type-examination Certificate. The application for appeal should be submitted to the Director Manager of GÉPTESZT Kft., and the application will be judged by the board of GÉPTESZT Kft. Certificate Body.

The type tested complies with the regulation (EU) 2016/425 of the European Parliament of the Council.

The present certificate is valid until 4<sup>th</sup> December, 2025

Budapest, 01<sup>th</sup> March, 2021- HUNGARY

**GÉPTESZT KFT.**  
EVE Ellenőrző Szervezet  
NB 2233  
1037 Budapest, Jablonka u. 79.

.....  
 Budai István  
 Head of Certification Body





# EU TYPE-EXAMINATION CERTIFICATE

Name of Certification Body: **GÉPTESZT Kft.** Phone: **+3612503531**  
 EU notified body identification number: **2233** Fax: **+3614300888**  
 Address: **Jablonka St. 79, 1037 Budapest, HUNGARY** E-mail: **gepteszt@gepteszt.hu**

Present EU type-examination certificate is valid only with the sealed identification sample (authentic sample) and the documents identified below. The EU type-examination certificate is not transferable.

1. Product designation: **Particle filtering half mask**  
**SR 9002 FFP2 non reusable particle filtering half mask without valves.**  
 Serial / Model No.: SR 9002  
 Year of production: 2020
  2. Name and address of the holder of the certificate (Manufacturer or authorized representative):  
**SARA BSK SRL**  
 Address: Via M.R. Ferrari 142, 29010, Pontenure (PC), ITALY
  3. Name and address of the Manufacturer: same as above (point 2)
  4. Protecting ability of PPE: Personal protective equipment providing respiratory system protection.  
 Category III. **EN 149:2001+A1:2009 class FFP2 NR**
  5. Identification data of the records of examination for compliance of PPE:
    - a. Certification Body: *GÉPTESZT Kft.*  
 Record of examination: *VD35/182/2012/E/2233*
    - b. Identification of body: *NB2233*
  6. Documentation of the compliance with the essential health and safety protection requirements:  
 Fully applied nationalized standard(s) during the production of the PPE:  
 Category III. EN 149:2001+A1:2009 class FFP2 NR
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The type tested complies with the regulation (EU) 2016/425 of the European Parliament of the Council.

The present certificate is valid until 20<sup>th</sup> November, 2025

Budapest, 20<sup>th</sup> November, 2020– HUNGARY

**GÉPTESZT Kft.**  
 EVE Tanúsító Szervezet  
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 .....  
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 Head of Certification Body