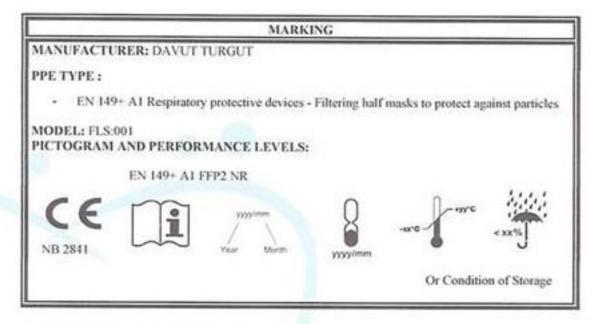
ATTACHMENTS (182-21-01)

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 : FLS:001

| 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:

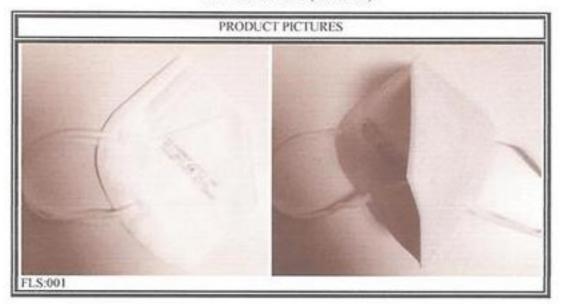


MNA LABORATORIES SAN. TIC. LTD. \$TI declares that the above-mentioned product meets the requirements of the directive according to the EU Directive 2016/425, the safety of the product is covered by the conditions and use specified in this certificate and in the technical file.

MNA Laboratuvarlan San, Tic.Ltd. Şti Adres: Xöçükbakkalköy Mahallesi Yenidoğan Cad.No:21 Ataşehir/İstanbul Tel: 0216 574 07 08 Faks: 0216 575 13 31 www.mnalab.com



ATTACHMENTS (182-21-01)



DOCUMENTS IN THE TECHNICAL FILE

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

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TECHNICAL EVALUATION REPORT (182-21-01)

Report No

: 182-21-01

Report Date

: 15.03.2021

Application No

: 182-21-01

1. COMPANY INFORMATION:

DAVUT TURGUT

Sanayi Mah. Atatürk Cad. No: 88-90A Güngören/ İSTANBUL

Tel: 0 532 265 15 95

2. PPE INFORMATION:

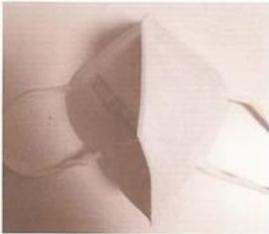
Disposable and non-sterile half mask made of particulate protection fitler material.

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





FL5:001

5. PPE DIMENSIONS:

FLS:001 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 fitler 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.



TECHNICAL EVALUATION REPORT (182-21-01)

ANALYSIS AND EVALUATIONS: EN 149:2001 +A1:2009

| TESTS | PARAMETER PERFORMANCE LEVELS | | RESULTS | PERFORMANCE | EVALUATION | | |
|--|--|------|-------------|-------------|----------------|------|----------------|
| | | FFP1 | FFP2 | FFP3 | | | |
| 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. | | | fy the | 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 | PERFO | RMANO S | E | 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) | 5.9 | 6.8 | 5.0 | 6.3 | 6.4 | 6.1 | | | | |
| Subject 2 (As recieved) | 7.7 | 6.7 | 5.9 | 7.9 | 6.2 | 6.9 | | | | |
| Subject 3 (As recieved) | 7.4 | 5.0 | 5.5 | 6.2 | 6.1 | 6.0 | | | | |
| Subject 4 (As recieved) | 7.1 | 7.0 | 5.6 | 7.9 | 7.1 | 6.9 | | | | |
| Subject 5 (As recieved) | 7.0 | 7.7 | 7.5 | 8.0 | 4.8 | 7.0 | | | | |
| Subject 6 (After temperature conditioning) | 6.8 | 5.5 | 7.4 | 5.1 | 6.9 | 6.3 | | | | |
| Subject 7 (After temperature conditioning) | 7.1 | 7.4 | 5.6 | 6.2 | 6.2 | 6.5 | | | | |
| Subject 8 (After temperature conditioning) | 7.1 | 7.3 | 7.0 | 6.0 | 6.9 | 6.9 | | | | |
| Subject 9 (After temperature conditioning) | 7.2 | 5.3 | 6.8 | 6.9 | 7.1 | 6.7 | | | | |
| Subject 10 (After temperature conditioning) | 5.8 | 4.6 | 6.3 | 6.2 | 6.5 | 5.9 | | | | |



TECHNICAL EVALUATION REPORT (182-21-01)

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 |
| 2 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 PARAN | PARAMETER | 0.0000000 | PERFORMANCE LEVELS | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|--|--|-----------|-----------------------|----|------------------------|-----------------------|------------|
| | | FFP1 FFP2 | FFP3 | | | | |
| Part 7.9.2 Penetration of filter | Sodium chloride, 95 L/min %, max | % 20 | %6 | %1 | See the table below | FFP2 | PASS |
| material | 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 | 4.6 | 4.8 | |
| As recieved | 4.8 | 4.9 | |
| As recieved | 4.9 | 5.1 | |
| After the simulated wearing treatment | 4.7 | 5.4 | |
| After the simulated wearing treatment | 4.6 | 5.1 | |
| After the simulated wearing treatment | 4.8 | 5.2 | |
| Mechanical strength and temperature conditioning | 4.9 | 5.5 | |
| Mechanical strength and temperature conditioning | 5.4 | 5.7 | |
| Mechanical strength and temperature conditioning | 5.3 | 5.7 | |

| TESTS | PARAMETER | PERFORMANCE I | LEVELS | RESULTS | PERFORMANCE | EVALUATION |
|--|--|--|-------------|----------------------|-------------|------------|
| | | FFP1 FFP2 F | FP3 | | LEVELS | |
| Part 7.10 Compatibility with skin | | ************************************** | | | | 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 | | | 0,75 0,70 0,74 | • | PASS |
| Part 7.13 Head harness | It can be donned and removed easily | | Appropriate | | PASS | |



TECHNICAL EVALUATION REPORT (182-21-01)

| 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 |

| TESTS PARAMETER | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE | EVALUATION |
|--------------------------------------|---------------------|--------------------|-------------|-------------|---------------------|-------------|------------|
| | FFP1 | FFP2 | FFP3 | | LEVELS | 0.5 | |
| 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 | 0,4 | 1,5 |
| As recieved | 0.4 | 1,4 |
| As recieved | 0.4 | 1,5 |
| After temperature conditioning | 0.4 | 1,5 |
| After temperature conditioning | 0.4 | 1,4 |
| After temperature conditioning | 0.3 | 1,5 |
| After the simulated wearing treatment | 0.3 | 1,4 |
| After the simulated wearing treatment | 0.4 | 1,5 |
| After the simulated wearing treatment | 0.4 | 1,5 |

| 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 | 2,1 | 2,1 | 2,1 | 2.1 |
| As recieved | 2,1 | 2,1 | 2.2 | 2,2 | 2.2 |
| As recieved | 2,2 | 2,2 | 2,1 | 2,1 | 2,1 |
| After temperature conditioning | 2,1 | 2,2 | 2,2 | 2,1 | 2.2 |
| After temperature conditioning | 2,1 | 2,1 | 2,1 | 2,2 | 2,1 |
| After temperature conditioning | 2,1 | 2,2 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2,1 | 2,1 | 2,1 | 2,1 |
| After the simulated wearing treatment | 2,1 | 2.2 | 2.2 | 2,2 | 2.1 |
| After the simulated wearing treatment | 2.1 | 2,1 | 2.1 | 2,1 | 2.2 |



TECHNICAL EVALUATION REPORT (182-21-01)

| TESTS | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE LEVELS | EVALUATION |
|----------------------------------|---|-----------------------|-----------|-----------|----------------|---|----------------|
| | | FFP1 | FFP2 | FFP3 | | - and an and an an an an an an an an an an an an an | |
| 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 PROPOSAL

Analysis and examinations FLS:001 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 (M-2021-00110)
- User Instruction

CONTROLLER : VOLKAN AKIN

SING

DATE : 15.03.2021