

TECHNICAL EVALUATION REPORT (77-21-01)

Report No : 77-21-01

Report Date : 25.05.2021

Application No : 77-21-01

COMPANY INFORMATION:

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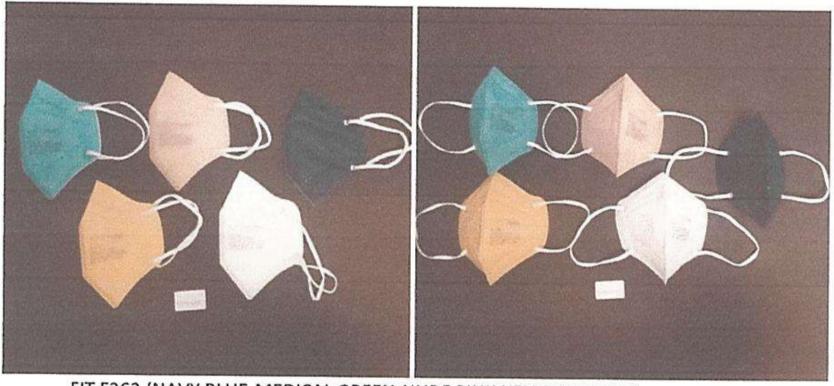
2. PPE INFORMATION:

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



FIT F262 (NAVY BLUE-MEDICAL GREEN-NUDE PINK-YELLOW-WHITE)

5. PPE DIMENSIONS:

FIT F262 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 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 (77-21-01)

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

| TESTS | PARAMETER | PERFC LEVELS | RMANO S | CE | RESULTS | PERFORMANC E LEVELS | EVALUATION |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|---------------------------------------------------------------|------------------------|-------------------|
| | | FFP1 | FFP2 | FFP3 | | | |
| Part 7.3 Visual inspection | Shall also the mark supplied by the mar | | | mation | Appropriate | - | PASS |
| Banned Azo Dyes | < 30 mg/kg | 30 mg/kg | | | < 5 mg/kg (NAVY BLUE-MEDICAL GREEN-NUDE PINK-YELLOW) | F | PASS |
| Part 7.4 Packaging | for sale packaged i are protected agai | rticle filtering half mask shall be offered r sale packaged in such a way that they e protected against mechanical damage of contamination before use. | | | Appropriate | | PASS |
| Part 7.5 Material | When conditioned 8.3.2 the particle fit 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 | 100 | egative comments should be made by st subject regarding any of the criteria ated. | | | 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 | PERFORMANC E 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) | 6,8 | 7,8 | 8,4 | 6,8 | 7,8 | 7,5 | | | | | |
| Subject 2 (As recieved) | 4,8 | 6,8 | 7,9 | 8,4 | 8,1 | 7,2 | | | | | |
| Subject 3 (As recieved) | 7,8 | 9,5 | 7,4 | 7,9 | 6,7 | 7,9 | | | | | |
| Subject 4 (As recieved) | 6,8 | 7,0 | 7,8 | 7,4 | 7,9 | 7,4 | | | | | |
| Subject 5 (As recieved) | 8,0 | 8,0 | 8,3 | 7,8 | 7,0 | 7,8 | | | | | |
| Subject 6 (After temperature conditioning) | 5,0 | 7,8 | 9,5 | 7,9 | 7,8 | 7,6 | | | | | |



TECHNICAL EVALUATION REPORT (77-21-01)

| Subject 7 (After temperature conditioning) | 8,9 | 8,3 | 8,7 | 7,3 | 7.2 | 8,1 |
|---------------------------------------------|-----|-----|-----|-----|-----|-----|
| Subject 8 (After temperature conditioning) | 8,8 | 7,9 | 8,2 | 7.4 | 7.9 | 8,0 |
| Subject 9 (After temperature conditioning) | 8,0 | 9,2 | 8,0 | 7.5 | 8.0 | 8,1 |
| Subject 10 (After temperature conditioning) | 5,5 | 5,0 | 7.0 | 6.5 | 7.0 | 6.2 |

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 | PARAMETER | 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 | 3,4 | 3,5 |
| As recieved | 3,0 | 3,6 |
| As recieved | 3,2 | 3,3 |
| After the simulated wearing treatment | 3,6 | 3,9 |
| After the simulated wearing treatment | 3,5 | 4,0 |
| After the simulated wearing treatment | 3,3 | 4,3 |
| Mechanical strength and temperature conditioning | 4,8 | 4,9 |
| Mechanical strength and temperature conditioning | 5,0 | 4,9 |
| Mechanical strength and temperature conditioning | 5,0 | 5,2 |

| TESTS | PARAMETER | PERFO | RMAN | CE LEVELS | S RESULTS | PERFORMANCE | EVALUATION |
|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------|----------------------|-------------|-------------|------------|
| | | FFP1 FFP2 FFP3 | | LEVELS | | | |
| Part 7.10 Compatibility with skin | and the second s | be known to be likely to any other adverse effect to | | | Appropriate | - | PASS |
| Part 7.11 Flammibility | Mask shall not burn for more than 5 s | sk shall not burn or not to continue to burn more than 5 s | | | | a=a | PASS |
| Part 7.12 Carbondioxide content of the inhalation air | Shall not exceed an average of % 1 | | | 0,81 0,82 0,80 | - | PASS | |



TECHNICAL EVALUATION REPORT (77-21-01)

| 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 PARAI | PARAMETER | PERFORMANCE LEVELS | | | RESULTS | PERFORMANCE | EVALUATION |
|------------------------|---------------------|--------------------|-------------|-------------|---------------------|-------------|------------|
| | | FFP1 FFP2 FFP3 | | LEVELS | | | |
| Part 7.16 Breathing | Inhalation 30L/min | 0,6 mbar | 0,7 mbar | 1,0 mbar | See the table below | FFP2 | PASS |
| Resistance | 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 | 0.5 | 2,0 |
| As recieved | 0.5 | 2,0 |
| As recieved | 0.5 | 2,0 |
| After temperature conditioning | 0.6 | 2,1 |
| After temperature conditioning | 0.5 | 2,0 |
| After temperature conditioning | 0.6 | 2,0 |
| After the simulated wearing treatment | 0.5 | 2,0 |
| After the simulated wearing treatment | 0.5 | 2,1 |
| After the simulated wearing treatment | 0.6 | 2,1 |

| 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 | 2,4 | 2,4 | 2,3 | 2,4 | 2,3 |
| As recieved | 2,3 | 2,4 | 2,3 | 2,4 | 2,3 |
| As recieved | 2,3 | 2,4 | 2,3 | 2,4 | 2,4 |
| After temperature conditioning | 2,4 | 2,4 | 2,4 | 2,3 | 2,4 |
| After temperature conditioning | 2,4 | 2,3 | 2,4 | 2,4 | 2,4 |
| After temperature conditioning | 2,3 | 2,4 | 2,4 | 2,4 | 2,4 |
| After the simulated wearing treatment | 2,4 | 2,4 | 2,3 | 2,4 | 2,4 |
| After the simulated wearing treatment | 2,4 | 2,3 | 2,4 | 2,3 | 2,3 |
| After the simulated wearing treatment | 2,4 | 2,4 | 2,3 | 2,4 | 2,4 |

TECHNICAL EVALUATION REPORT (77-21-01)

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|----------------------------------|-------------------------------------------------------------------------------------------------|-----------------------|-----------|-----------|----------------|-----------------------|----------------|
| | | 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 PROPOSAL

Analysis and examinations FIT F262 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
- User Instruction

CONTROLLER

: VOLKAN AKIN

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DATE

: 25.05.2021