

# CONFORMITY TO TYPE BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED PRODUCT CHECKS AT RANDOM INTERVALS (MODULE C2)

## MODÜL C2 - ÜRETİMİN DÂHİLÎ KONTROLÜ VE ÜRÜNÜN RASTGELE ARALIKLARLA DENETİMLİ MUAYENESİNE DAYALI TİPE UYGUNLUK

Belge No / Certificate No

: 201-21-01-R01-01

Belgelendirme Tarihi - Bir Sonraki Belge Tarihi /

Certification Date / Certificate Validity Date

: 02.07.2021-02.07.2022

Belge Geçerlilik Tarihi / Document Validity Period: 1 yıl / 1 year

Firma Unvanı ve Adresi /

Company Name and Address

: IVISION TECH S.R.L.

Viale Della Repubblica, 209/ 31100 Treviso,

ITALY

Ürün Adı /Modeller / Product Name / Models

Direktifi / Directive

: +FORTI : 2016/425 REGULATION

Modülü/Kategori / Module / Category

: C2 MODÜLÜ/ KATEGORİ III MODULE C2 / CATEGORY III

MODULE CZ

Test Rapor No/ları / Test Report No

Ürün Tipi / Product Type:

: M-2021-01086

 EN 149:2001+ A1:2009 Solunumla ilgili koruyucu cihazlar - Parçacıklara karşı koruma amaçlı filtreli yarım maskeler/ Respiratory protective devices - Filtering half masks to protect against particles

Ürünün Malzeme Bilgisi / Product Material Information: +FORTI model ürünleri kumaş, elastik kayış, burun klipsi, filtre katmanı kullanılarak imal edilmiştir./ +FORTI model products are manufactured using fabric, elastic strap, nose clip, filter layer.

Erhan ÜSTÜNEL 02.07.2021

Karar Verici / Approver

Okan AKEL 02.07.2021 Sirkat Müdürü / Ganara

Şirket Müdürü / General manager









## CONFORMITY TO TYPE BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED PRODUCT CHECK AT RANDOM INTERVALS Notified Body Number: 2841

(MODULE C2, ANNEX VII) (201-21-01-R01-01)

Report No : 201-21-01-R01-01

Report Date : 02.07.2021

Application No : 201-21-01-R01-01

### 1. COMPANY INFORMATION:

IVISION TECH S.R.L.

Viale Della Repubblica, 209/31100 Treviso, ITALY

+39 346/8707007

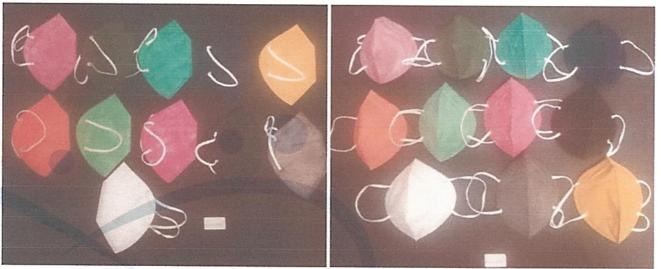
### 2. PPE INFORMATION:

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

#### PPE PICTURES



+FORTI (White, Pink, Green, Tiffany, Grey, Blue night, Yellow, Black, Green Military, Orange, Rose)

## 5. PPE DIMENSIONS:

+FORTI model has been found to be produced using standard sizes.

## 6. PPE PRODUCT MATERIAL INFORMATION:

The mask 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.

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Notified Body Number: 2841

## CHECK AT RANDOM INTERVALS (MODULE C2, ANNEX VII) (201-21-01-R01-01)

## 8. ANALYSIS AND EVALUATIONS:

EN 149:2001 +A1:2009

| TESTS                                    | PARAMETER  | PERFO<br>LEVELS  | RMANO | Œ           | RESULTS   | PERFORMANC   | EVALUATIO         |
|--|--|--|-------|-------------|---|--------------|-------------------|
|  |  | FFP1   | FFP2  | FFP3        |   | E LEVELS     | N                 |
| Part 7.3<br>Visual<br>inspection         | Shall also the marking supplied by the manuf   | . 175  |       |             | Appropriate   | -            | PASS              |
| Banned Azo<br>Dyes                       | < 30 mg/kg   |  |       |             | (Pink, Green, Tiffany,<br>Grey, Blue night,<br>Yellow, Black, Green<br>Military, Orange,<br>Rose) < 5 mg/kg | -            | Not<br>applicable |
| Part 7.4<br>Packaging                    | Particle filtering half mask shall be offered<br>for sale packaged in such a way that they<br>are protected against mechanical damage<br>and contamination before use. |  |       | Appropriate | -   | PASS         |                   |
| Part 7.5<br>Material                     | When conditioned in 8.3.2 the particle filte collapse.   |  |       |             | Appropriate   | -            | PASS              |
| Part 7.6<br>Cleaning and<br>disinfecting | particle filtering half  | After cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant |       |             | Not applicable  | -            | Not<br>applicable |
| Part 7.7<br>Practical<br>performance     |  | nents should be made by garding any of the criteria  |       |             | Appropriate   | <del>-</del> | PASS              |
| Part 7.8<br>Finish of parts              | Parts of the device contact with the wear edge or burrs.   |  |       |             | Appropriate   | -            | PASS              |

| TESTS                                 | PARAMETER PERFORMANCE<br>LEVELS                                   |      | RESULTS | PERFORMANCE<br>LEVELS | EVALUATION          |      |      |
|---------------------------------------|---|------|---------|-----------------------|---------------------|------|------|
|                                       |   | FFP1 | FFP2    | FFP3                  |                     |      |      |
| Part 7.9.1<br>Total inward<br>leakage | At least 46 out of<br>the 50 individual<br>exercise result        | <25  | <11     | <5                    | See the table below | FFP2 | PASS |
|                                       | At least 8 out of the<br>10 individual wearer<br>arithmetic means | <22  | <8      | <2                    | See the table below | FFP2 | PASS |

|                         | Total Inwai   | d Leakage (% | 6)         |            |            |         |
|-------------------------|---------------|--------------|------------|------------|------------|---------|
|                         | Exercise<br>1 | Exercise 2   | Exercise 3 | Exercise 4 | Exercise 5 | Average |
| Subject 1 (As received) | 5,9           | 6,8          | 5,0        | 6,3        | 6,4        | 6,1     |
| Subject 2 (As received) | 7,7           | 4,9          | 5,9        | 7,9        | 6,2        | 6,5     |
| Subject 3 (As received) | 8,8           | 9,3          | 7,8        | 7,0        | 8,9        | 8,4     |



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**CHECK AT RANDOM INTERVALS** 

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| Subject 4 (As received)                     | 3,3 | 4,9 | 4,0 | 2,7 | 4,6 | 3,9 |
|---|-----|-----|-----|-----|-----|-----|
| Subject 5 (As received)                     | 7,0 | 7,7 | 7,5 | 8,0 | 8,7 | 7,8 |
| Subject 6 (After temperature conditioning)  | 6,8 | 8,1 | 7,4 | 7,0 | 6,9 | 7,2 |
| Subject 7 (After temperature conditioning)  | 7,1 | 5,0 | 5,6 | 6,2 | 8,4 | 6,5 |
| Subject 8 (After temperature conditioning)  | 9,0 | 9,2 | 8,7 | 7,9 | 8,0 | 8,6 |
| Subject 9 (After temperature conditioning)  | 6,0 | 8,0 | 6,8 | 6,9 | 7,1 | 7,0 |
| Subject 10 (After temperature conditioning) | 5,8 | 6,7 | 8,2 | 7,9 | 8,1 | 7,3 |

## Subject facial dimensions

| Subject | (mm) |     | Face Depth<br>(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 PARAME                           | PARAMETER                              | PERFORMANCE<br>LEVELS |      | RESULTS | PERFORMANCE<br>LEVELS | EVALUATION |      |
|--|--|-----------------------|------|---------|-----------------------|------------|------|
|  |  | FFP1                  | FFP2 | FFP3    |                       |            |      |
| Part 7.9.2<br>Penetration<br>of filter | Sodium chloride, 95<br>L/min<br>%, max | % 20                  | % 6  | %1      | See the table below   | FFP2       | PASS |
| material                               | Paraffin oil, 95 L/min<br>%, max       | % 20                  | % 6  | % 1     | See the table below   | FFP2       | PASS |

| Penetration of filter material                            | Sodium Chloride (%) | Paraffin Oil (%) |
|---|---------------------|------------------|
| As received   | 1,3                 | 1,2              |
| As received   | 1,3                 | 1,5              |
| As received   | 1,5                 | 1,1              |
| After the simulated wearing treatment                     | 1,2                 | 1,6              |
| After the simulated wearing treatment                     | 1,4                 | 1,4              |
| After the simulated wearing treatment                     | 1,1                 | 1,4              |
| Mechanical strength and temperature conditioning (120 mg) | 2,6                 | 2,7              |
| Mechanical strength and temperature conditioning (120 mg) | 2,5                 | 2,9              |
| Mechanical strength and temperature conditioning (120 mg) | 2,7                 | 2,9              |



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| TESTS  | PARAMETER   | PERFO<br>LEVELS | RMAN     | CE                 | RESULTS              | PERFORMANCE<br>LEVELS | EVALUATION        |  |
|--|---|-----------------|----------|--------------------|----------------------|-----------------------|-------------------|--|
|  |   | FFP1            | FFP2     | FFP3               |                      |                       |                   |  |
| Part 7.10<br>Compatibility<br>with skin                        | Materials shall not cause irritation or an health   |                 |          | DANGER COOP, CONSO | Appropriate          | -                     | PASS              |  |
| Part 7.11<br>Flammibility                                      | Mask shall not burn<br>for more than 5 s  | or not to       | continu  | e to burn          | Flame not seen       | -                     | PASS              |  |
| Part 7.12<br>Carbondioxide<br>content of the<br>inhalation air | Shall not exceed an a   | iverage o       | f % 1    |                    | 0,74<br>0,73<br>0,80 | -                     | PASS              |  |
| Part 7.13<br>Head harness                                      | It can be donned and  | l removed       | deasily  |                    | Appropriate          | -                     | PASS              |  |
| Part 7.14<br>Field of vision                                   | The field of vision sh<br>performance test.   | all accep       | table in | practical          | Appropriate          | -                     | PASS              |  |
| Part 7.15<br>Exhalation<br>valve(s)                            | t 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<br>applicable |  |

| TESTS PA                      | PARAMETER           | PERFORMANCE LEVELS |             |                     | RESULTS             | PERFORMANCE | EVALUATION |
|-------------------------------|---------------------|--------------------|-------------|---------------------|---------------------|-------------|------------|
|                               |                     | FFP1 FFP2 FFP3 L   | LEVELS      |                     |                     |             |            |
| Part 7.16<br>Breathing        | Inhalation 30L/min  | 0,6<br>mbar        | 0,7<br>mbar | 1,0<br>mbar         | See the table below | FFP2        | PASS       |
| Resistance Inhalation 95L/min | 2,1<br>mbar         | 2,4<br>mbar        | 3,0<br>mbar | See the table below | FFP2                | PASS        |            |
|                               | Exhalation 160L/min | 3,0<br>mbar        | 3,0<br>mbar | 3,0<br>mbar         | See the table below | FFP2        | PASS       |

| Breathing Resistance (mbar)           | Inhalation 30L/min                      | Inhalation 95L/min |
|---------------------------------------|---|--------------------|
| As received                           | 0,4                                     | 1,3                |
| As received                           | 0.5                                     | 1,3                |
| As received                           | 0.5                                     | 1,4                |
| After temperature conditioning        | 0.4                                     | 1,4                |
| After temperature conditioning        | 0.5                                     | 1,3                |
| After temperature conditioning        | 0.5                                     | 1,4                |
| After the simulated wearing treatment | 0.5                                     | 1,3                |
| After the simulated wearing treatment | 0.4                                     | 1,4                |
| After the simulated wearing treatment | 0.4                                     | 1,4                |
| After the flow conditioning           | -/-                                     | \ - /              |
| After the flow conditioning           | \ \ \ - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | N / /              |
| After the flow conditioning           | 1 1-                                    | <b>-</b>           |



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| Breathing Resistance 160L/min (mbar)  | Facing<br>directly<br>ahead | Facing<br>vertically<br>upwards | Facing<br>vertically<br>downwards | Lying on the left side | Lying on the right side |
|---------------------------------------|-----------------------------|---------------------------------|-----------------------------------|------------------------|-------------------------|
| As received                           | 2,3                         | 2,3                             | 2,2                               | 2,3                    | 2,3                     |
| As received                           | 2,2                         | 2,2                             | 2,3                               | 2,3                    | 2,3                     |
| As received                           | 2,3                         | 2,3                             | 2,2                               | 2,3                    | 2,3                     |
| After temperature conditioning        | 2,2                         | 2,2                             | 2,2                               | 2,2                    | 2,3                     |
| After temperature conditioning        | 2,2                         | 2,2                             | 2,2                               | 2,3                    | 2,3                     |
| After temperature conditioning        | 2,3                         | 2,3                             | 2,2                               | 2,2                    | 2,3                     |
| After the simulated wearing treatment | 2,3                         | 2,2                             | 2,3                               | 2,3                    | 2,3                     |
| After the simulated wearing treatment | 2,3                         | 2,3                             | 2,3                               | 2,2                    | 2,3                     |
| After the simulated wearing treatment | 2,3                         | 2,3                             | 2,3                               | 2,3                    | 2,3                     |
| After the flow conditioning           | -                           | -                               | 1-                                | -                      | -                       |
| After the flow conditioning           | -                           | -                               | ( <b>-</b> )                      | -                      | -                       |
| After the flow conditioning           | -                           | 1-                              | -                                 | -                      | -                       |

| TESTS                            | PARAMETER  | PERFC<br>LEVEL | RMANO<br>S | CE        | RESULTS        | PERFORMANCE<br>LEVELS | EVALUATION     |
|----------------------------------|--|----------------|------------|-----------|----------------|-----------------------|----------------|
|                                  |  | FFP1           | FFP2       | FFP3      |                |                       |                |
| Part 7.17<br>Clogging            | After clogging the inhalation resistances shall not exceed. (valved)                   | 4<br>mbar      | 5<br>mbar  | 7<br>mbar | Not applicable | -                     | Not applicable |
|                                  | The exhalation resist 3 mbar at 160 L/ (valved)  |                |            |           | Not applicable | -                     | Not applicable |
|                                  | After clogging the inhalation and exhalation resistances shall not exceed. (valveless) | 3<br>mbar      | 4<br>mbar  | 5<br>mbar | Not applicable | -                     | Not applicable |
| Part 7.18<br>Demountable<br>part | All demountable par<br>readily connected<br>possible by hand.                          |                |            |           | Not applicable | -                     | Not applicable |



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#### 9. DECISION

Analysis and examinations +FORTI 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. The homogeneity of the production was monitored at the performance levels determined as a result of the technical evaluations made within the scope of MODULE C2.

### 10. ATTACHMENTS

- Basic Health Safety Requirements
- Risk Assessment
- Test Reports (M-2021-01086)
- User Instruction

CONTROLLER

: ERHAN ÜSTÜ

SIGNATURE

DATE

: 02.07.2021