

Testcertificaat Particle Penetration

| | |
|-----------------|-------------|
| Datum | 2 juni 2020 |
| Inkoopnummer | na |
| Lotnummer | X179 |
| Productnaam | na |
| Leverancier | na |
| Type mondmasker | na |

Voor het bepalen van de deeltjesdoorlaat van de mondmaskers zijn er testen uitgevoerd op 3 verschillende maskers. Per masker zijn er minimaal 5 metingen uitgevoerd. Onderstaand de gemiddelden van de 5 metingen per masker.

Klasse indeling conform NEN-EN 149

| | |
|-------|---------------|
| FFP 1 | : $\geq 80\%$ |
| FFP 2 | : $\geq 94\%$ |
| FFP 3 | : $\geq 99\%$ |

| | |
|-------------|----------|
| Test medium | NaCl |
| Flow | 95 l/min |

| | Gemiddelde rendement voor deeltjes $\geq 0,3\mu\text{m}$ | Pass or Fail t.o.v. P1/P2/P3 $\geq 0,3\mu\text{m}$ | Gemiddelde rendement voor deeltjes $\geq 0,5\mu\text{m}$ | Pass or Fail t.o.v. P1/P2/P3 $\geq 0,5\mu\text{m}$ |
|----------|--|--|--|--|
| Masker 1 | 93% | Pass for P1 | 97% | Pass for P2 |
| Masker 2 | 95% | Pass for P2 | 98% | Pass for P2 |
| Masker 3 | 96% | Pass for P2 | 99% | Pass for P3 |

(Adem) weerstand over de maskers *

| | Gemeten (Pa.) | Eis (Pa.) | Conclusie |
|----------|---------------|-----------|-----------|
| Masker 1 | 117 | < 240 Pa. | Pass |
| Masker 2 | 104 | | Pass |
| Masker 3 | 94 | | Pass |

* weerstand is gemeten over een oppervlak van 44 cm^2 . Gerapporteerde waarde is de weerstand over een volledig masker ($44 \text{ cm}^2 \times \text{factor } 3,4 = 150 \text{ cm}^2$).

| |
|------------------------|
| Eindoordeel (P1/P2/P3) |
| na |

| | |
|------|--------|
| Naam | 5.1.2e |
|------|--------|

Bijlage : Ruwe data

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Uitgevoerd door 5.1.2e

| | |
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| Inkoopnummer | na |
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| Type mondkmasker | na |

Gebruikte apparatuur

| | |
|-------------------|---------------|
| Aerosol generator | 226 19 04 4C9 |
| Deeltjesteller 1 | X079-03 |
| Deeltjesteller 2 | X079-04 |
| Anemometer | F024 |
| Drukmeter | FU11 |

| Masker | Meting | Deeltjesgrootte | Upstream | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 1 | 1 | ≥ 0,3µm | 437.058.546 | 31.352.360 | 92,83 | 92,85 |
| | 2 | | 436.183.802 | 31.203.685 | 92,85 | |
| | 3 | | 439.300.674 | 31.340.000 | 92,87 | |
| | 4 | | 440.426.153 | 31.394.385 | 92,87 | |
| | 5 | | 435.880.802 | 31.198.035 | 92,84 | |
| | 1 | ≥ 0,5µm | 123.712.219 | 3.396.211 | 97,25 | 97,28 |
| | 2 | | 123.794.856 | 3.374.316 | 97,27 | |
| | 3 | | 125.117.390 | 3.353.833 | 97,32 | |
| | 4 | | 125.491.372 | 3.347.477 | 97,33 | |
| | 5 | | 123.611.219 | 3.415.987 | 97,24 | |

| Masker | Meting | Deeltjesgrootte | Upstream | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 2 | 1 | ≥ 0,3µm | 426.895.692 | 20.976.558 | 95,09 | 95,09 |
| | 2 | | 434.484.107 | 20.938.418 | 95,18 | |
| | 3 | | 424.464.630 | 21.126.645 | 95,02 | |
| | 4 | | 429.520.631 | 21.122.761 | 95,08 | |
| | 5 | | 427.796.569 | 21.075.792 | 95,07 | |
| | 1 | ≥ 0,5µm | 120.733.780 | 2.222.705 | 98,16 | 98,21 |
| | 2 | | 119.306.362 | 2.149.250 | 98,20 | |
| | 3 | | 121.240.546 | 2.134.418 | 98,24 | |
| | 4 | | 120.628.543 | 2.160.198 | 98,21 | |
| | 5 | | 122.198.280 | 2.171.498 | 98,22 | |

| Masker | Meting | Deeltjesgrootte | Upstream | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 3 | 1 | ≥ 0,3µm | 429.312.980 | 15.764.113 | 96,33 | 96,33 |
| | 2 | | 428.954.890 | 15.741.512 | 96,33 | |
| | 3 | | 425.370.804 | 15.868.645 | 96,27 | |
| | 4 | | 438.992.730 | 15.870.411 | 96,38 | |
| | 5 | | 427.431.062 | 15.607.669 | 96,35 | |
| | 1 | ≥ 0,5µm | 121.215.472 | 1.417.530 | 98,83 | 98,85 |
| | 2 | | 120.952.025 | 1.376.918 | 98,86 | |
| | 3 | | 119.822.661 | 1.386.806 | 98,84 | |
| | 4 | | 124.390.261 | 1.430.244 | 98,85 | |
| | 5 | | 120.548.731 | 1.355.730 | 98,88 | |