

Testcertificaat Particle Penetration

| | |
|-----------------|-------------|
| Datum | 13 mei 2020 |
| Inkoopnummer | - |
| Lotnummer | X150a |
| Productnaam | - |
| Leverancier | - |
| Type mondmasker | KN95 |

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 | 96% | Pass for P2 | 99% | Pass for P3 |
| Masker 2 | 97% | Pass for P2 | 99% | Pass for P3 |
| Masker 3 | 97% | Pass for P2 | 99% | Pass for P3 |
| Overall gemiddelde | 97% | Pass for P2 | 99% | Pass for P3 |

(Adem) weerstand over de maskers *

| | Gemeten (Pa.) | Eis (Pa.) | Conclusie |
|----------|---------------|-----------|-----------|
| Masker 1 | 157 | < 240 Pa. | Pass |
| Masker 2 | 102 | | Pass |
| Masker 3 | 171 | | Pass |

* weerstand is gemeten over een oppervlak van 44 cm^2 . Geraapporteerde 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) |
| 0,3 um voldoet aan P2 |
| 0,5 um voldoet aan P3 |

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

Bijlage : Ruwe data

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| Datum | 13 mei 2020 | Uitgevoerd door | 5.1.2e |
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| | |
|----------------------|---------------|
| Gebruikte apparatuur | |
| Aerosol generator | 226 19 04 4C9 |
| Deeltjesteller 1 | X079-03 |
| Deeltjesteller 2 | X079-04 |
| Anemometer | F024 |
| Drukmeter | F011 |

| Masker | Meting | Deeltjesgrootte | Upstream | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 1 | 1 | ≥ 0,3µm | 188.228.936 | 8.511.318 | 95,48 | 95,51 |
| | 2 | | 186.526.769 | 8.313.778 | 95,54 | |
| | 3 | | 188.071.786 | 8.263.631 | 95,61 | |
| | 4 | | 184.366.924 | 8.313.778 | 95,49 | |
| | 5 | | 183.105.131 | 8.349.093 | 95,44 | |
| | 1 | ≥ 0,5µm | 44.129.560 | 276.513 | 99,37 | 99,20 |
| | 2 | | 43.369.235 | 367.272 | 99,15 | |
| | 3 | | 43.948.042 | 360.562 | 99,18 | |
| | 4 | | 43.127.329 | 358.443 | 99,17 | |
| | 5 | | 42.500.141 | 379.985 | 99,11 | |

| Masker | Meting | Deeltjesgrootte | Upstream | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 2 | 1 | ≥ 0,3µm | 182.619.555 | 4.487.434 | 97,54 | 97,49 |
| | 2 | | 181.517.737 | 4.650.235 | 97,44 | |
| | 3 | | 181.560.821 | 4.604.679 | 97,46 | |
| | 4 | | 182.332.446 | 4.604.679 | 97,47 | |
| | 5 | | 184.061.099 | 4.572.543 | 97,52 | |
| | 1 | ≥ 0,5µm | 42.591.606 | 218.597 | 99,49 | 99,44 |
| | 2 | | 42.277.305 | 247.555 | 99,41 | |
| | 3 | | 42.442.931 | 234.314 | 99,45 | |
| | 4 | | 42.248.700 | 244.377 | 99,42 | |
| | 5 | | 42.875.889 | 242.964 | 99,43 | |

| Masker | Meting | Deeltjesgrootte | Upstream | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 3 | 1 | ≥ 0,3µm | 186.339.955 | 6.103.433 | 96,72 | 96,74 |
| | 2 | | 188.132.880 | 6.052.227 | 96,78 | |
| | 3 | | 184.901.588 | 6.053.640 | 96,73 | |
| | 4 | | 188.386.440 | 6.187.129 | 96,72 | |
| | 5 | | 188.435.174 | 6.164.881 | 96,73 | |
| | 1 | ≥ 0,5µm | 43.888.007 | 260.269 | 99,41 | 99,43 |
| | 2 | | 44.071.290 | 257.090 | 99,42 | |
| | 3 | | 43.386.892 | 245.436 | 99,43 | |
| | 4 | | 44.407.839 | 235.548 | 99,47 | |
| | 5 | | 44.270.112 | 249.321 | 99,44 | |