

## Testcertificaat Particle Penetration



|                 |               |
|-----------------|---------------|
| Datum           | 30 maart 2020 |
| Inkoopnummer    | -             |
| Lotnummer       | X012          |
| Productnaam     | 5.1.1c        |
| Leverancier     | 5.1.1c        |
| Type mondmasker | KN95 - PM 2,5 |

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 |
|--------------------|--|------------------------------|
| Masker 1           | 91,7%  | Pass for P1                  |
| Masker 2           | 90,2%  | Pass for P1                  |
| Masker 3           | 90,3%  | Pass for P1                  |
| Overall gemiddelde | 90,7%  | Pass for P1                  |

|                                      |
|--------------------------------------|
| Eindoordeel (P1/P2/P3)               |
| Voldoet aan de eisen voor klasse P2. |

|      |        |           |
|------|--------|-----------|
| Naam | 5.1.2e | (Kalibra) |
|------|--------|-----------|

|              |
|--------------|
| Handtekening |
| 5.1.2e       |

Bijlage : Ruwe data

Bijlage : Ruwe data

**KALIBRA** 

|       |               |
|-------|---------------|
| Datum | 30 maart 2020 |
|-------|---------------|

|                 |                  |
|-----------------|------------------|
| Uitgevoerd door | 5.1.2e (Kalibra) |
|-----------------|------------------|

|                 |               |
|-----------------|---------------|
| Inkoopnummer    | -             |
| Lotnummer       | X012          |
| Productnaam     | 5.1.1c        |
| Leverancier     |               |
| Type mondmasker | KN95 - PM 2,5 |

|                      |               |
|----------------------|---------------|
| 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         | 130.445.667 | 10.217.945 | 92,17     | 91,73     |
|        | 2      |                 | 131.070.030 | 10.632.539 | 91,89     |           |
|        | 3      |                 | 130.496.520 | 10.810.525 | 91,72     |           |
|        | 4      |                 | 131.393.512 | 11.151.312 | 91,51     |           |
|        | 5      |                 | 129.741.139 | 11.221.235 | 91,35     |           |
|        | 1      | ≥ 0,5µm         | 8.161.219   | 286.401    | 96,49     | 96,28     |
|        | 2      |                 | 7.823.611   | 280.398    | 96,42     |           |
|        | 3      |                 | 7.762.163   | 284.989    | 96,33     |           |
|        | 4      |                 | 7.771.345   | 297.349    | 96,17     |           |
|        | 5      |                 | 7.445.037   | 299.115    | 95,98     |           |

| Masker | Meting | Deeltjesgrootte | Upstream    | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 2      | 1      | ≥ 0,3µm         | 128.301.713 | 12.394.035 | 90,34     | 90,16     |
|        | 2      |                 | 125.798.610 | 12.308.573 | 90,22     |           |
|        | 3      |                 | 125.251.939 | 12.327.290 | 90,16     |           |
|        | 4      |                 | 125.241.344 | 12.359.780 | 90,13     |           |
|        | 5      |                 | 129.598.468 | 13.040.999 | 89,94     |           |
|        | 1      | ≥ 0,5µm         | 7.229.618   | 289.580    | 95,99     | 95,98     |
|        | 2      |                 | 7.126.146   | 289.933    | 95,93     |           |
|        | 3      |                 | 7.183.003   | 269.450    | 96,25     |           |
|        | 4      |                 | 7.032.915   | 296.643    | 95,78     |           |
|        | 5      |                 | 7.155.104   | 290.286    | 95,94     |           |

| Masker | Meting | Deeltjesgrootte | Upstream    | Downstream | Rendement | Gemiddeld |
|--------|--------|-----------------|-------------|------------|-----------|-----------|
| 3      | 1      | ≥ 0,3µm         | 126.330.449 | 11.970.965 | 90,52     | 90,26     |
|        | 2      |                 | 125.338.460 | 12.201.217 | 90,27     |           |
|        | 3      |                 | 124.568.247 | 12.053.601 | 90,32     |           |
|        | 4      |                 | 127.182.238 | 12.599.566 | 90,09     |           |
|        | 5      |                 | 131.065.782 | 12.962.954 | 90,11     |           |
|        | 1      | ≥ 0,5µm         | 7.175.587   | 281.811    | 96,07     | 95,93     |
|        | 2      |                 | 7.138.859   | 298.055    | 95,82     |           |
|        | 3      |                 | 7.038.566   | 290.992    | 95,87     |           |
|        | 4      |                 | 7.281.884   | 288.874    | 96,03     |           |
|        | 5      |                 | 7.607.838   | 313.947    | 95,87     |           |