



Fractional Efficiency Report: JX78-B-PTFE-MEM_0000.frac.pal

Fractional Efficiency

23/04/2020 09:07:51

User: BH

type:

media: JX78-B-PTFE-MEMBRANE

project number:

customer: JP AIR TECH

book number:

note: 2,75 l/min UGF 100% DEHS

remark:

Test Conditions

| | | | |
|--------------------------|-----------------------|--------------------|------------|
| Filter Area: | 100 cm ² | Dust/Aerosol: | DEHS |
| Face Velocity: | 5.3 cm/s | Discharge: | No |
| Dust Mass Concentration: | 0.0 mg/m ³ | Total Volume Flow: | 31.8 l/min |
| PDI_TEST Start: | 54 Pa | PDI_TEST End: | 54 Pa |

Statistics

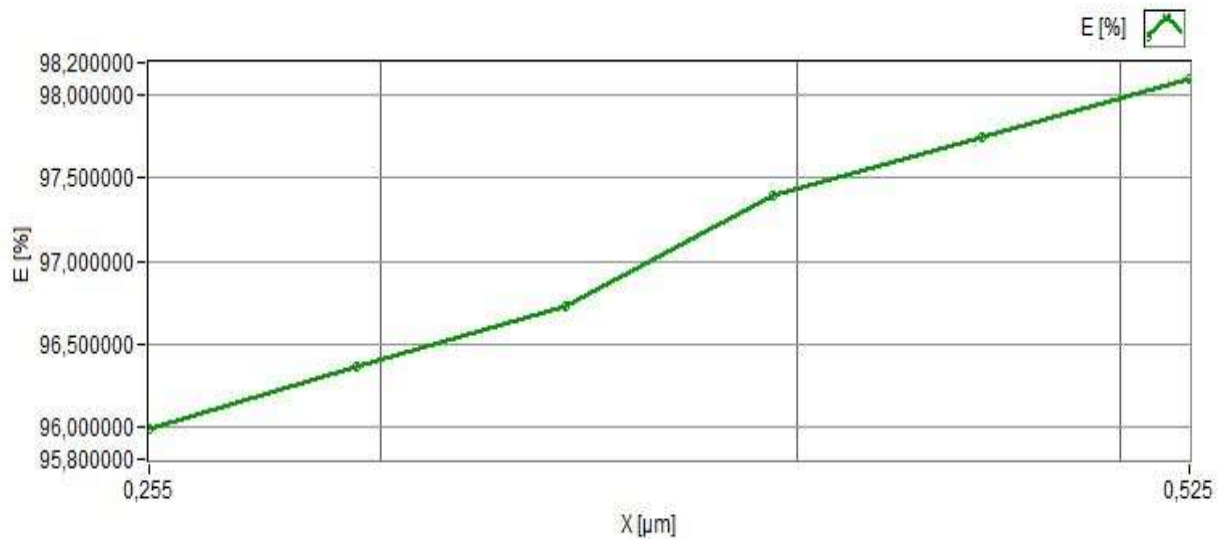
x50 = 0,247 μm x80 = 0.252 μm x95 = 0.255 μm Retention = 95.951 %

1 x Downstream measurement: 165 s - 1 x Upstream measurement: 165 s

Fractional Efficiency

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Fractional Efficiency

100% * (1 - dN_{downstr./t})



Frac. Efficiency Table

| Xu [μm] | X [μm] | Xo [μm] | dX [μm] | | dNup [P/s] | dNdown [P/s] | | P [%] | E [%] |
|----------------------|---------------------|----------------------|----------------------|--|------------|--------------|--|----------|-----------|
| 0.237 | 0.255 | 0.274 | 0.037 | | 2730.381 | 128.088 | | 4.012791 | 95.987209 |
| 0.274 | 0.295 | 0.316 | 0.042 | | 2312.836 | 94.009 | | 3.636955 | 96.363045 |
| 0.316 | 0.341 | 0.365 | 0.049 | | 1133.700 | 37.214 | | 3.271285 | 96.728715 |
| 0.365 | 0.393 | 0.422 | 0.057 | | 417.328 | 10.473 | | 2.609370 | 97.390630 |
| 0.422 | 0.454 | 0.487 | 0.065 | | 113.951 | 2.061 | | 2.245543 | 97.754457 |
| 0.487 | 0.525 | 0.562 | 0.075 | | 9.042 | 0.125 | | 1.899891 | 98.100109 |