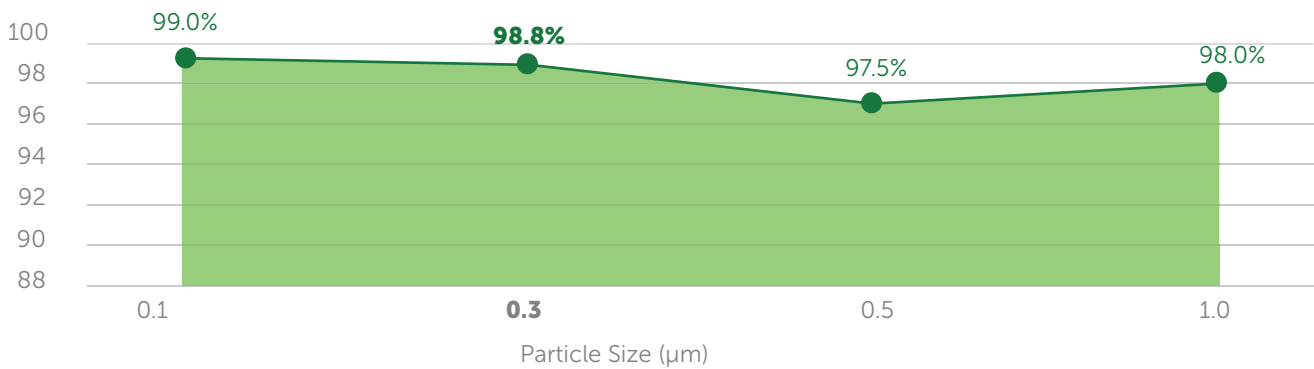


# A Nanofibre Filter between a Polypropylene and Carbon layer

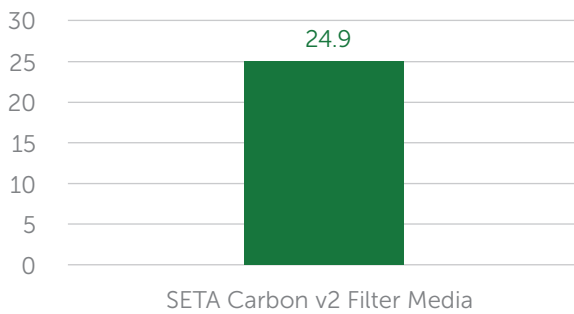
## Particulate Filter Efficiency Standard on par with ASTM F2299

Filtration Efficiency (%)

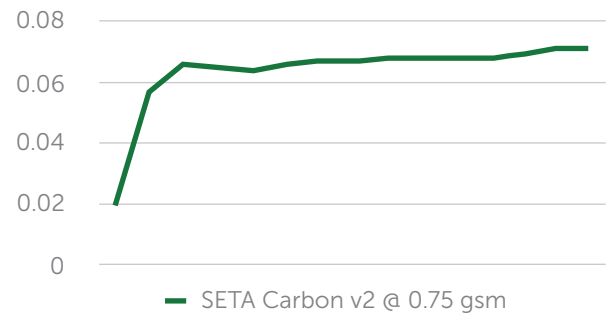


### Pressure Drop

28.3 L/min, 2% NaCl, 100cm<sup>2</sup>



### VOC - Butane Absorption Capacity



## SETA Carbon filter media



High Efficiency



Ideal Pressure drop



98,75% BFE  
(Bacterial Filter Efficiency)



98,96% VFE  
(Viral Filter Efficiency)



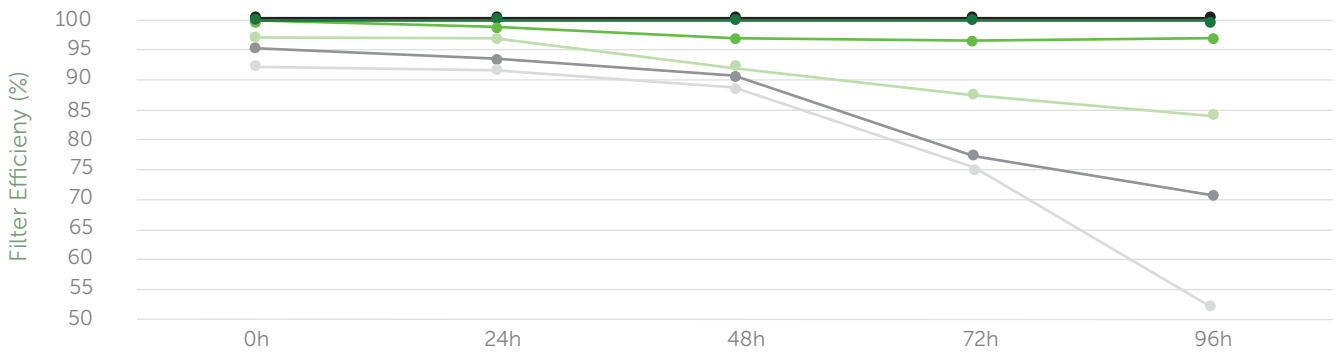
BFE & VFE Tested  
(Nelson Labs - EN14683:2019, ASTM F2101-19 and F2100)



Test Conditions for BFE & VFE  
28.3 L/min @ 85%RH,  
Mean Particle Size (MPS) of 3.0 ± µm

# V2 - SETA Carbon Filter Media Aging studies

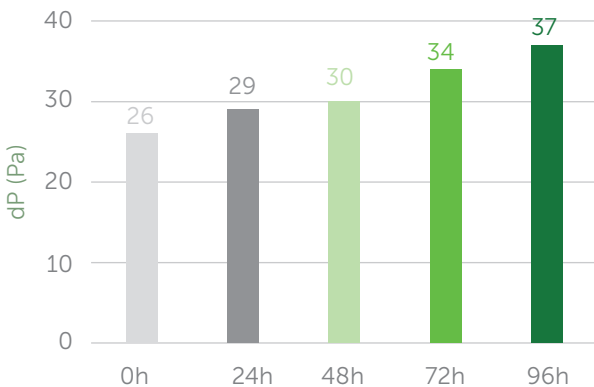
## Particulate Filter Efficiency - v2 - SETA Carbon Filter Media



	Hour 0	Hour 24	Hour 48	Hour 72	Hour 96
● 0.3µm	92.23	91.75	88.79	75.43	51.93
● 0.5µm	95.30	93.66	90.68	77.26	70.74
● 1µm	97.21	96.98	91.96	87.39	84.03
● 2.5µm	99.72	98.89	96.97	96.60	96.99
● 5µm	100.00	100.00	100.00	100.00	100.00
● 10µm	100.00	100.00	100.00	100.00	100.00

Particle Size in µm at Different Time Intervals

## Pressure Drop v2 - SETA Carbon Filter Media Flow Rate - 28.3 L/min



High Filtration Efficiency (>88% at 0.3µm) at Ideal Pressure Drop for up to Hour 48 (i.e., 6 Days based on 8-hour usage per day)



Life of Filter Media drops between Hour 48 and Hour 72 (6 to 9 Days)



Recommended Filter Media replacement would be by the end of 48 Hour usage (i.e., Day 6)

NOTE: Aging studies were carried out in an industrial environment and results may differ based on the environment to which these filter media are exposed.

