

What to Wear: the Filtration Performance of Alternative Materials Used to Construct Do-It-Yourself Masks

Supplementary Information

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The following pages contain supplementary material for the manuscript “What to Wear: the Filtration Performance of Alternative Materials Used to Construct Do-It-Yourself Masks” related to the calibration of the instruments used for measuring particle concentration and SEM images of filter materials tested in initial survey of percent penetration.

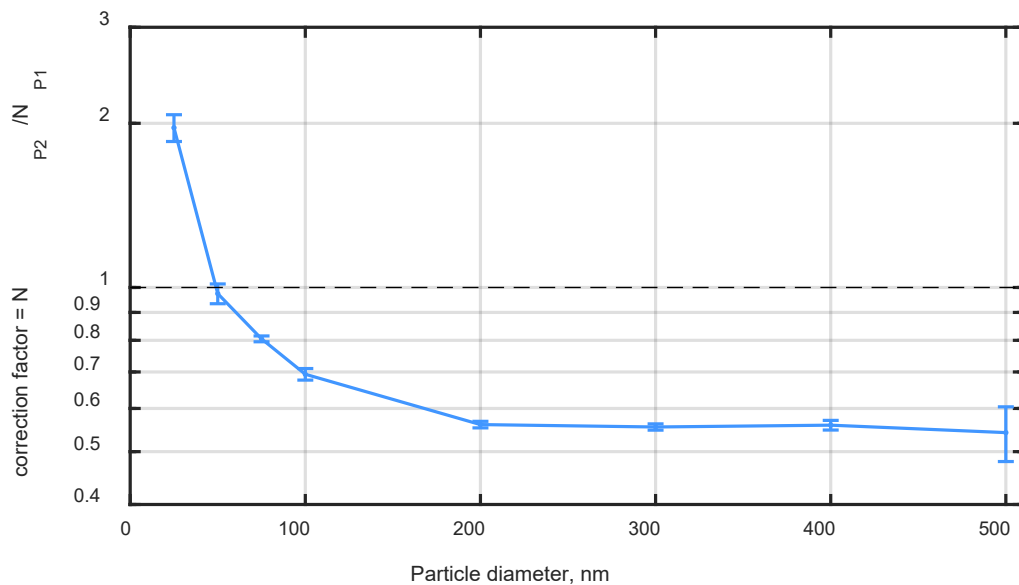
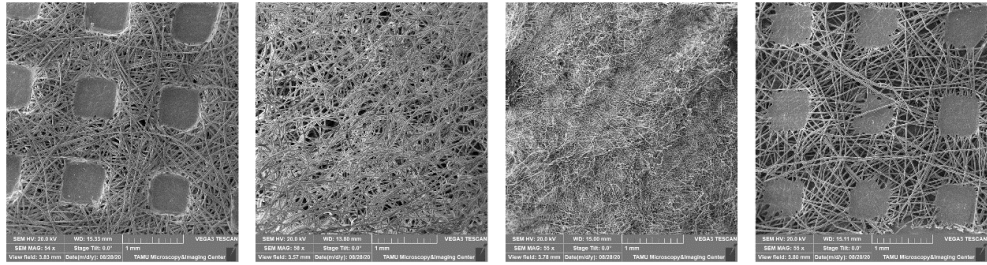
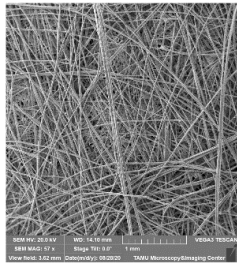


Fig. S1 Calibration data for the CPCs conducted at 4.3 cm s^{-1} . The concentration of particles measured by the TSI water-based CPC ($N_{P1,blank}$) and the GRIMM butanol CPC ($N_{P2,blank}$) was determined in triplicate for each particle diameter, and then averaged.

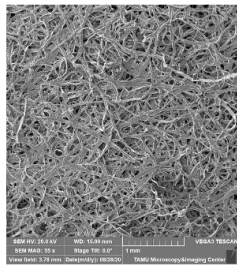
Suzhou particle respirator (N95)



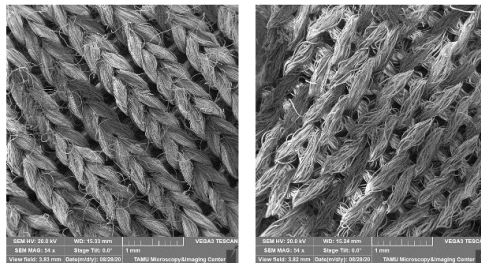
HVAC filter



Engine filter



Bra cup



Weed barrier

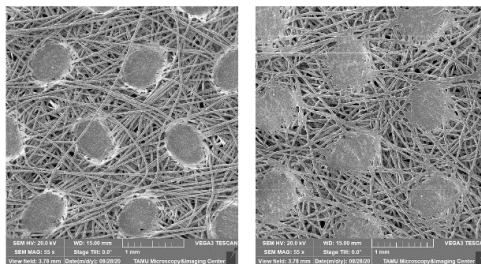


Fig. S2 SEM images of filter materials tested in initial survey of percent penetration are shown in Figures S1 and S2 (Images included in the main text are not reproduced here). Magnification for each image is approximately $50 \pm 5x$. For materials composed of multiple layers, an image of each layer is included.

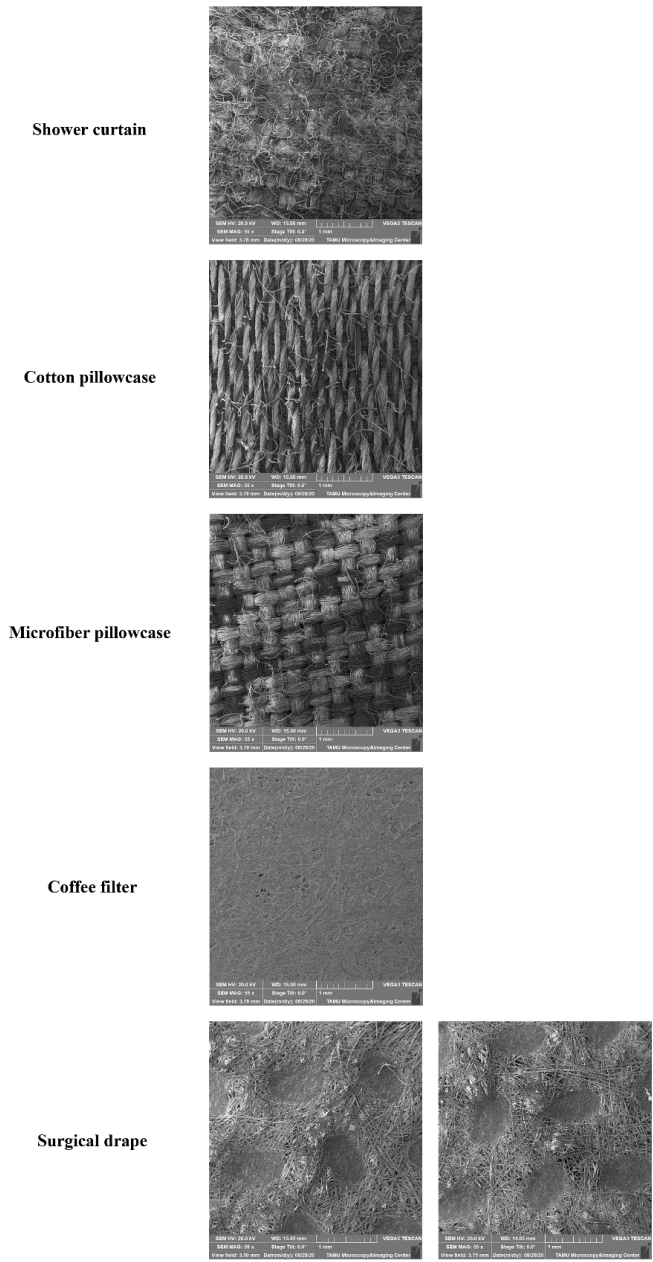


Fig. S3 SEM images of filter materials tested in initial survey of percent penetration are shown in Figures S1 and S2 (Images included in the main text are not reproduced here). Magnification for each image is approximately $50 \pm 5x$. For materials composed of multiple layers, an image of each layer is included.