

HOW EFFICIENT IS YOUR MASK?



According to CDC's Science Brief: Community use of Cloth Masks, masks are primarily intended to reduce the emission of virus-laden droplets ("source control") and also help reduce inhalation of these droplets by the wearer ("filtration of wearer protection")

How effective of a "source control" and "filtration for wearer protection" your mask is measured in:

- % BFE (Bacterial Filtration Efficiency) filtering bacteria-containing droplets about **3 microns in size**
- % PFE (Particle Filtration Efficiency) filtering airborne particles about **0.10 micron in size**
- % NaCl Aerosol (Sodium Chloride Aerosol Filtration Efficiency) filtering sub-micron particulates about **0.30 micron in size**, specifically used for respirators

It is also crucial to note the exact evaluation methods used for the BFE, PFE & NaCl Aerosol tests of your mask because results greatly vary & can be misleading without knowing what precise measurements were applied & the standards they adhere to.

Below is a filtration table summary of the internationally accepted standards for the different types of masks:

WHAT STANDARD REQUIRES	REUSABLE MASKS		MEDICAL MASKS		RESPIRATORS	
	US (ASTM F3502)	UK (CWA 17553)	US (ASTM 2100-19)	EUROPE (EN 14683)	US (ASTM 2100-19)	EUROPE (EN 14683)
Filtration (BFE @ 3 micron)	N/A	70%	Level 1: ≥ 95% Level 2 & 3: ≥ 98%	Type I: ≥ 95% Type II or IIR: ≥ 98%	N/A	N/A
Filtration (PFE @ 0.1 micron)	N/A	N/A	Level 1: ≥ 95% Level 2 & 3: ≥ 98%	N/A	N/A	N/A
Filtration (NaCl Aerosol @ 0.3 micron)	Level 1: ≥ 20% Level 2: ≥ 50%	N/A	N/A	N/A	N95: ≥ 95% N99: ≥ 98% N100: ≥ 99.97%	FFP1: ≥ 80% FFP2: ≥ 94% FFP3: ≥ 99%

SO HOW DOES MONKEY MASK RATE?

MONKEY MASK	REUSABLE MASKS		SERVICE LIFE	IMPROVED PROTECTION
	US (ASTM F3502)	EUROPE (CWA 17553)	(Max no. of use & cleaning cycle while maintaining their performance level properties)	
<p>Casual (2 layers with filter pocket)</p>	N/A	72%	can be laundered more than 60x @ min. of 60 °C (CWA 17553 requires at least 5 cleaning cycles @ min. 60 °C)	CDC has advised to wear a disposable mask for improved protection Since our casual model has filter pockets, you are able to insert the disposable mask for additional comfort instead of having double strings on your ears. https://www.cdc.gov/coronavirus/2019-ncov/your-health/effective-masks.html
<p>Business (3 layers with built-in filter)</p>	22%	N/A	can be laundered more than 60x @ min. of 60 °C	CDC recommends to look for masks that are labeled as: <ul style="list-style-type: none"> • MEETS ASTM F3502 • Meets workplace performance • Meets workplace performance plus • KN95 https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/types-of-masks.html