

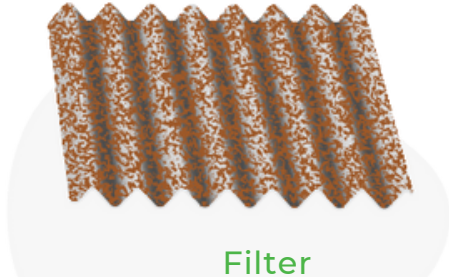
# Why is it necessary to test HEPA filters below 300 nanometers?

## Reminder

The filter class is defined by its efficiency according to EN 1822



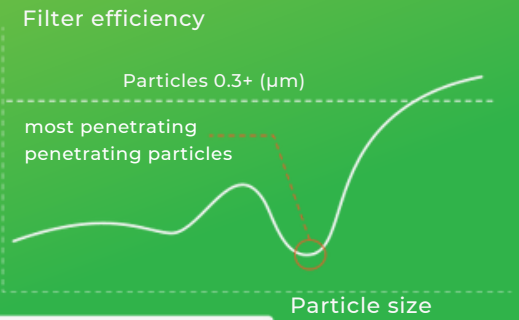
Certification  
**EN 1822**



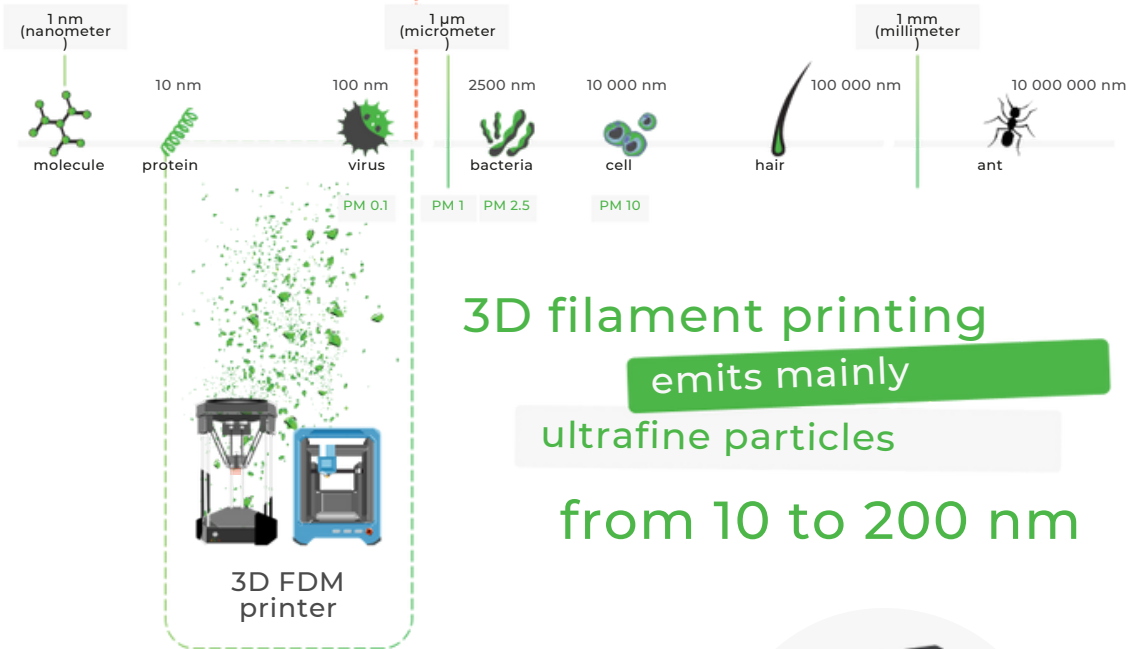
Filter

EPA	HEPA	ULPA
10-11-12	13-14	15-16-17

According to EN 1822, efficiency is given by the retention of the most penetrating particles (<0.15-0.2 micrometers)  
The percentage efficiency of these filters is given for particles of 300 nanometers and more.



## Scale of sizes



3D filament printing

emits mainly

ultrafine particles

from 10 to 200 nm

All filters in the Alveo3D range are tested from 7 to 5000 nm.



HEPA grade 13 or higher  
Compliant with EN-1822 standard



Tested under the 200nm