

How big is mist?




Human Hair
approximate size: 100 μ

1 micron = 0.000039 inches
(0.001 mm)

If a human hair was this size,
then mist would be this size.

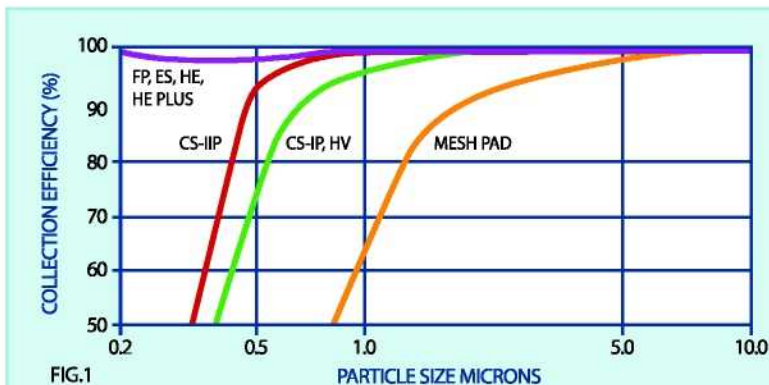


Mist

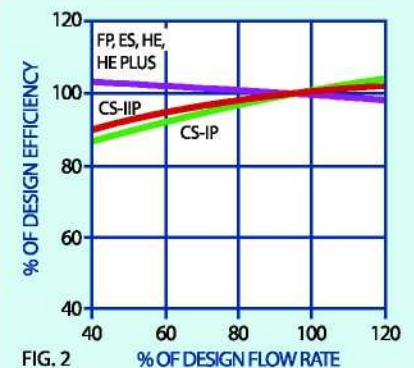
			
mean size 2.5 μ	mean size 1.5 μ	mean size 1.0 μ	mean size 0.3 μ

- Mechanical
Mist mean size
is 2.5 micron (0.0025 mm)
- Condensation
Mist mean size
is 1.0 micron (0.001 mm)
- Chemical Reaction
Mist mean size
is 0.3 micron (0.0003 mm)

Collection Efficiency vs Particle Size



Turndown Flow Rate vs Efficiency



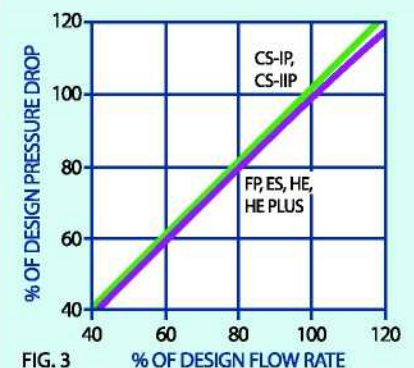
Performance comparison

For high efficiency Brownian Movement based products collection efficiency actually increases with reduced flow rate.

For impaction based products collection efficiency, especially on small particles, decreases with reduced flow rate. (Fig. 2)

For all element types, pressure drop is linearly proportional to flow rate. (Fig. 3)

Flow Rate vs Pressure Drop



NOTE: Data shown is expected performance based on particle specific gravity of 1.8.