



GORE® Filtration Products

Proven to Optimize System Performance

GORE® Membrane Technology versus Non-Membrane Media

Longer Bag Life, Lower Emissions Rates, Lower Pressure Drops, Better Gas Throughput

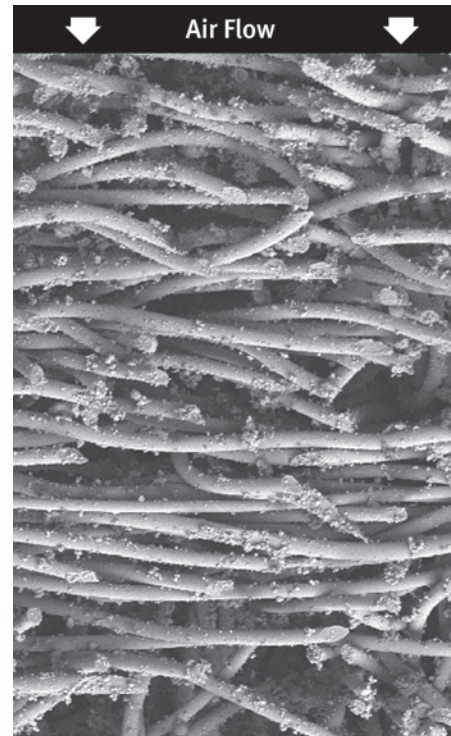
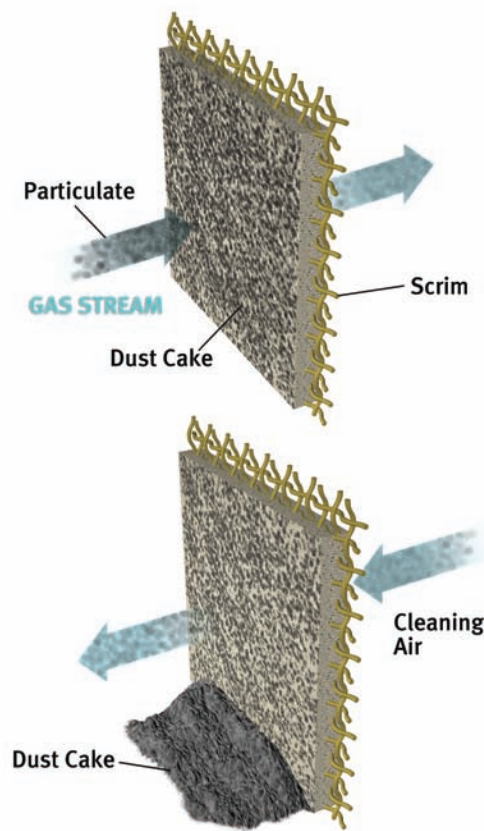
Non-Membrane Depth Filtration

Filtering Mode

1. Dust is filtered inside of filter media
2. Internal dust cake buildup required
3. Particles enter into filter media and can pass through
4. Might not filter finest particles
5. Efficiency requires careful balance between filter, particulate, and system conditions

Cleaning Mode

1. Difficult to remove internal particles, only surface dust cake is removed
2. Dust deep inside media can cause higher Dp and blinding with time
3. Dust buildup inside media can lead to emissions after cleaning



Non-membrane filter lets dust get inside filter media reducing cleanability and increasing pressure drop.

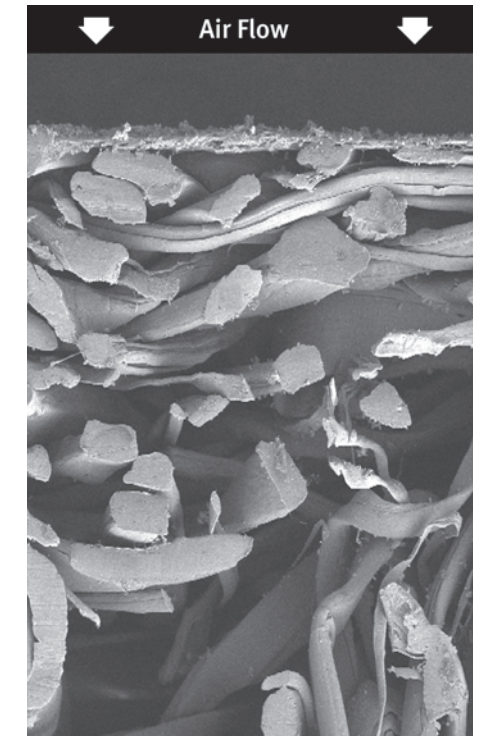
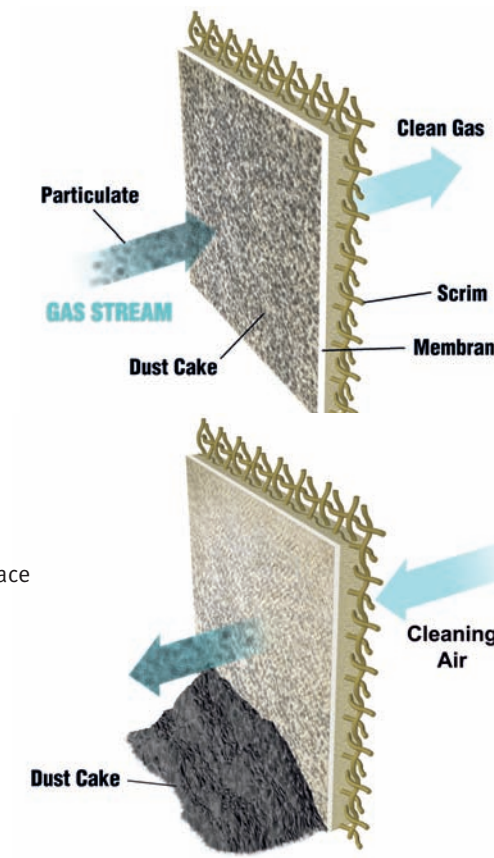
Membrane Surface Filtration

Filtering Mode

1. Dust filtered at membrane surface
2. No dust cake buildup required
3. No particles enter backer
4. Capable of submicron filtration
5. Maintains capture efficiency over wide range of system conditions

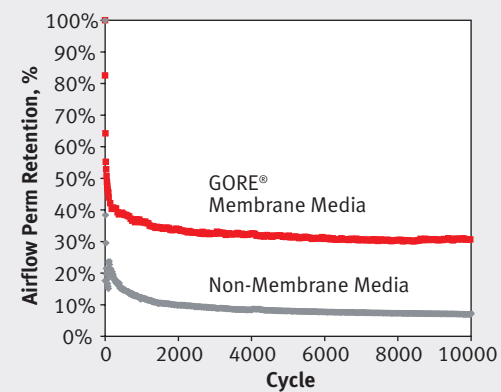
Cleaning Mode

1. Almost all dust falls off membrane surface
2. Particles do not build up inside backer
3. Surface is hydrophobic, even wet dust cakes can still be handled

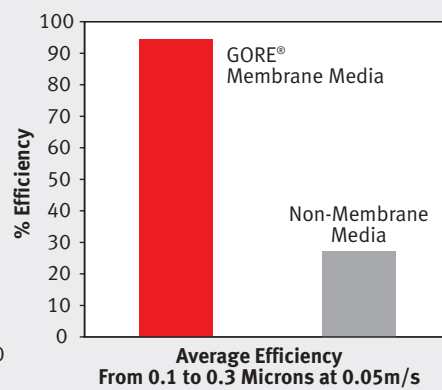


Membrane laminate keeps dust on surface for easier cleaning and low Dp.

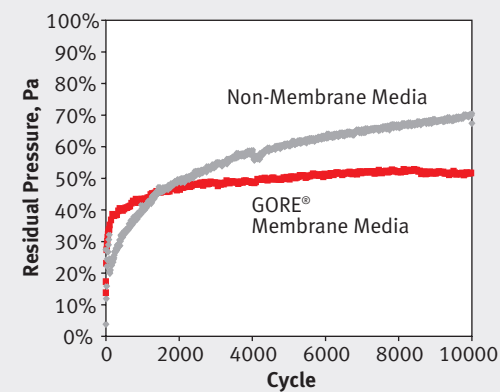
Better Gas Throughput



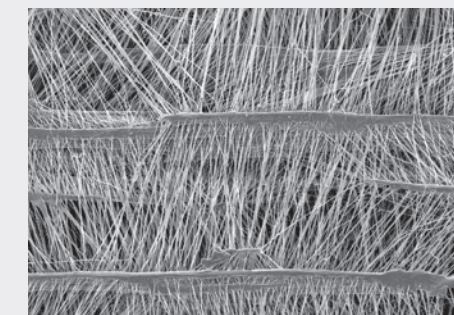
Lower Emissions



Lower Pressure Drops



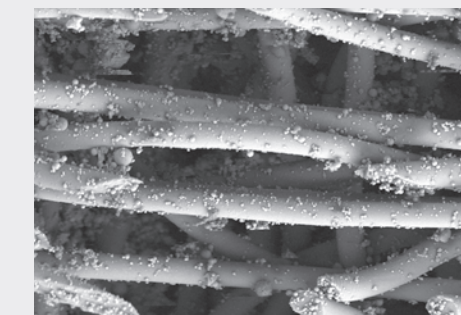
Membrane



Surface Filtration

Uniform membrane structure allows higher efficiency.

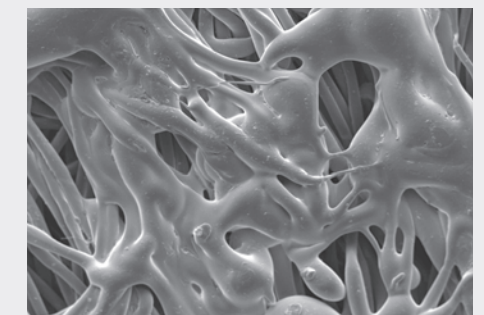
Non-Membrane



Depth Filtration

Open structure lets dust and smaller particles pass through.

Microfiber (Glazed)



Depth Filtration

Dust still penetrates into backer and is trapped.