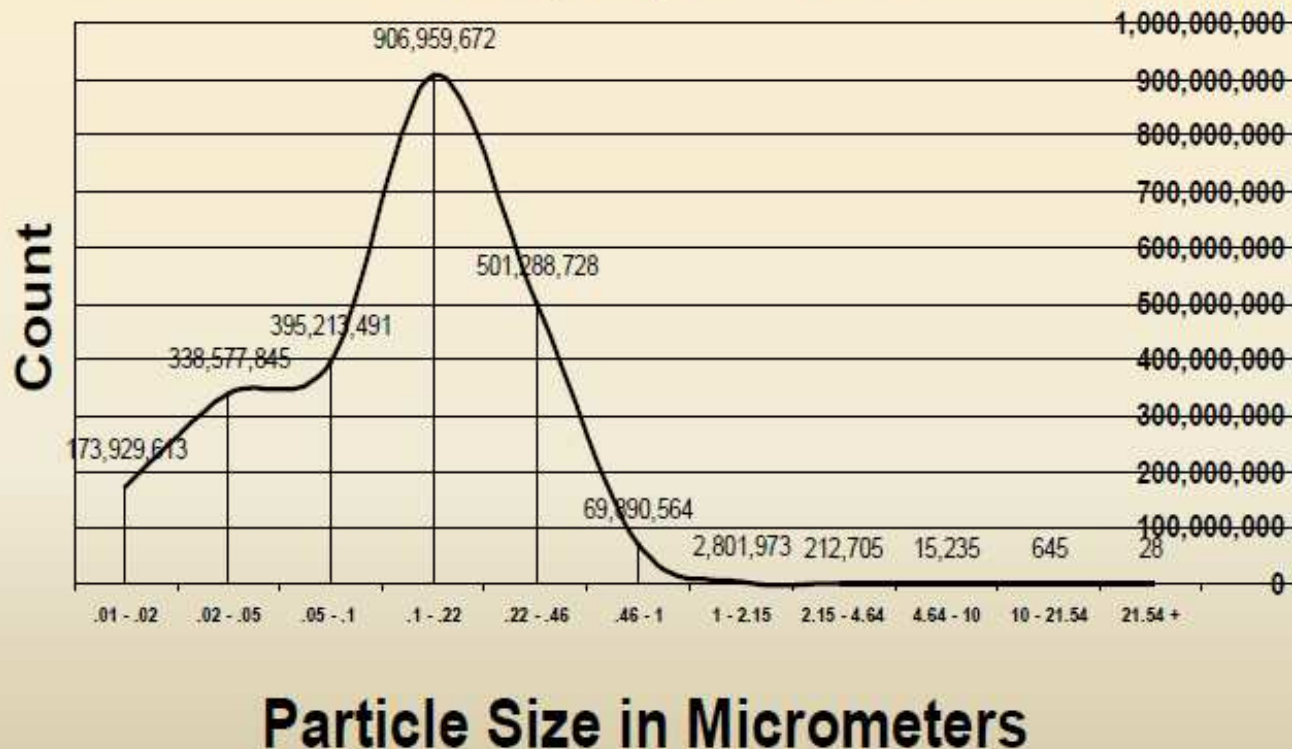


Ever wonder what your filters are actually seeing when in service?

Particles by Count
Typical Atmospheric Air Sample
69 micrograms per Cubic Meter

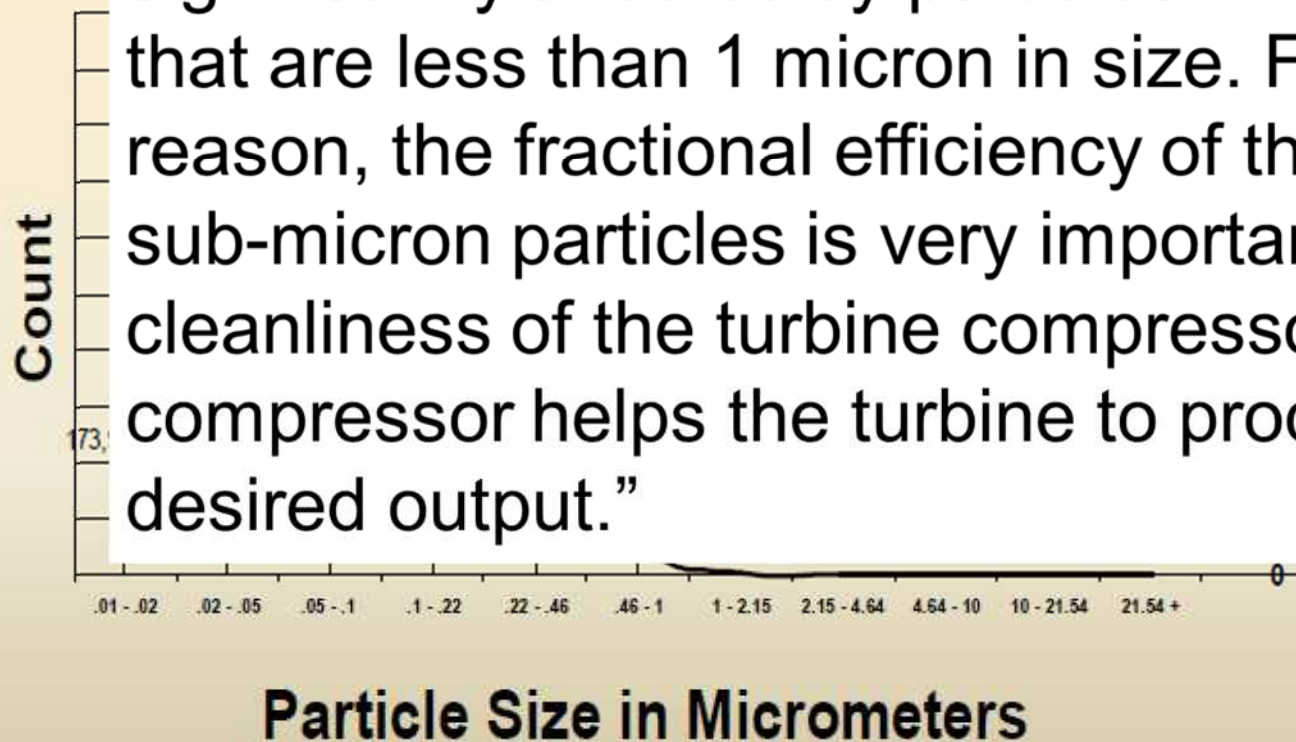


100 μm = 1/10 mm
50 μm = hair
10 μm = visible
1 μm = 1/1000 mm
0.3 μm = smoke

Number 99 % < 1 μm
Weight 30 % < 1 μm

Why capturing efficiency of small particles is important to your operation

“Gas turbine engines are susceptible to fouling of the inlet compressor blades. This fouling is significantly affected by particles in the air stream that are less than 1 micron in size. For that reason, the fractional efficiency of the filter on sub-micron particles is very important to the cleanliness of the turbine compressor. A clean compressor helps the turbine to produce its desired output.”

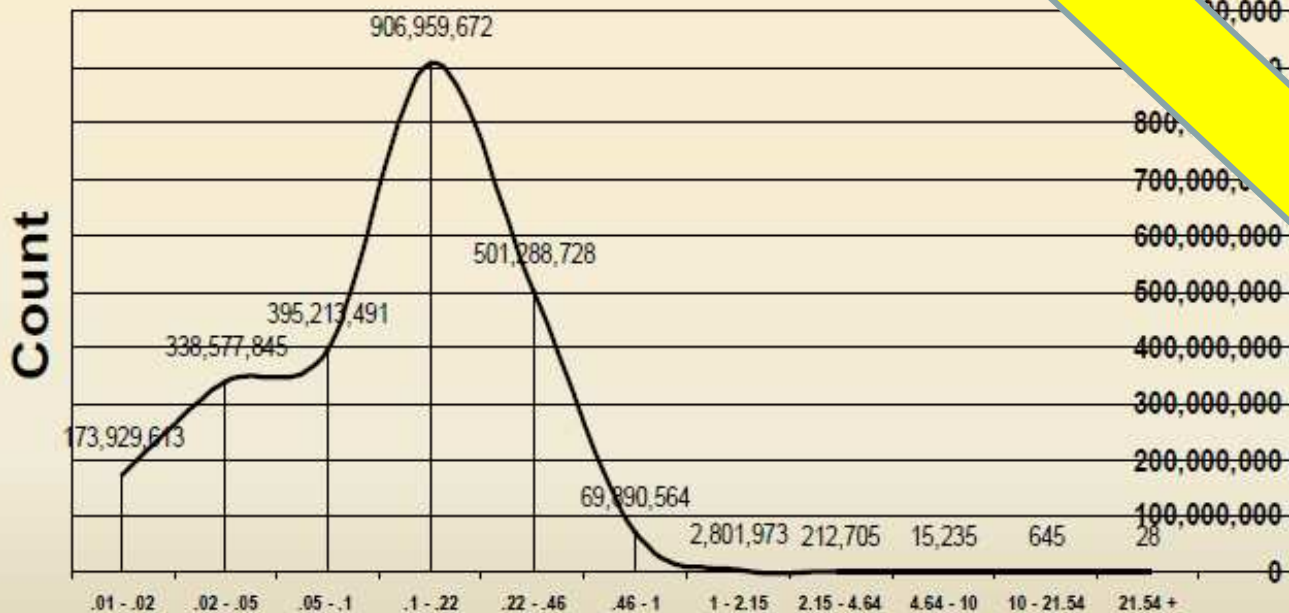


0 mm
ble
000 mm
oke

% < 1 μm
% < 1 μm

It's the size that "counts"

Particles by Count
Typical Atmospheric Air Sample
69 micrograms per Cubic Meter



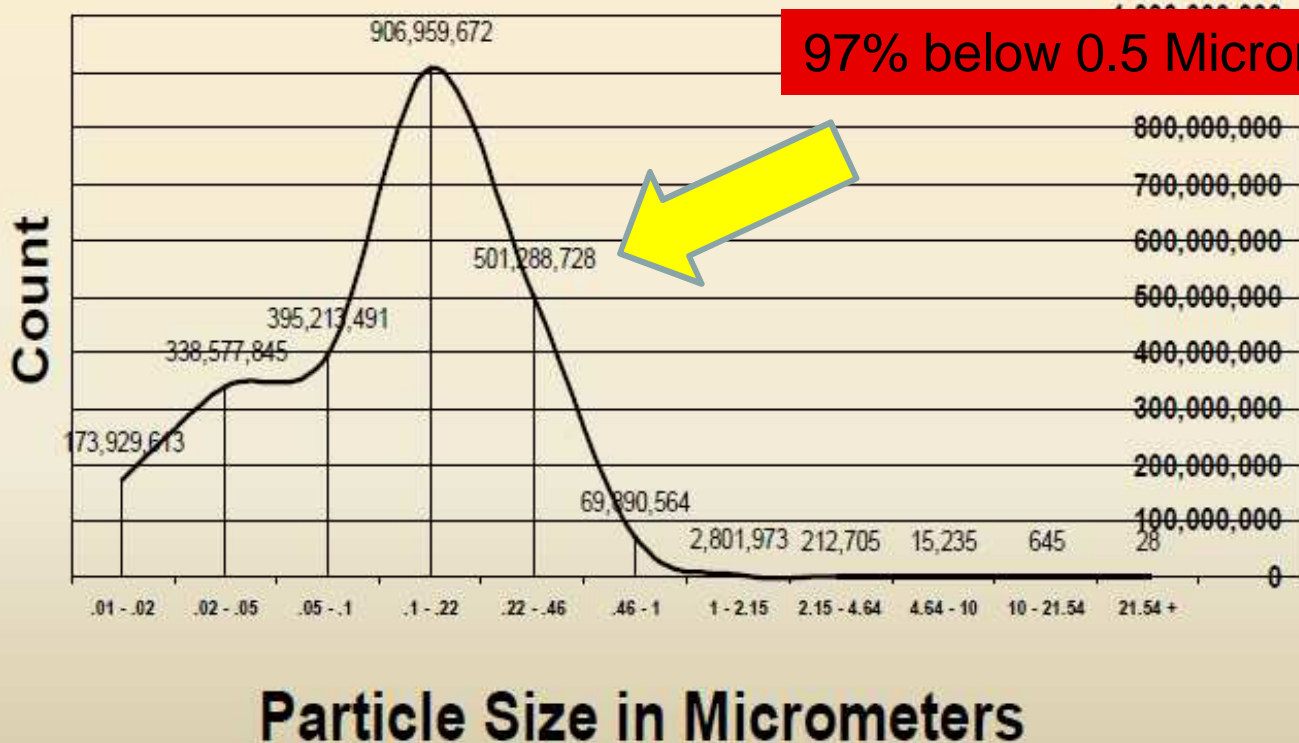
Particle Size in Micrometers

100 μm = 1/10 mm
50 μm = hair
10 μm = visible
1 μm = 1/1000 mm
0.3 μm = smoke

Number 99 % < 1 μm
Weight 30 % < 1 μm

Initial Efficiency Really Matters!

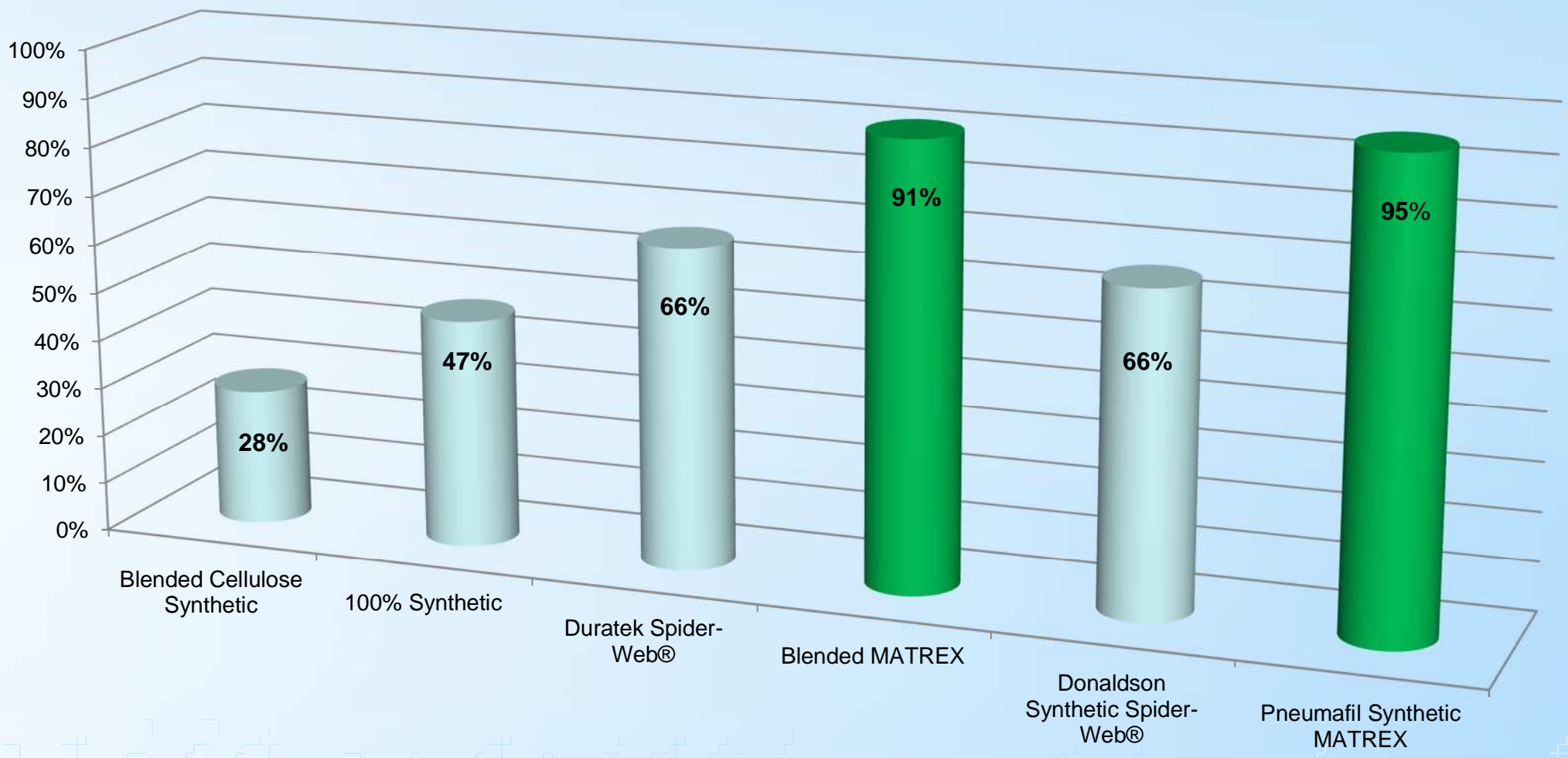
Particles by Count
Typical Atmospheric Air Sample
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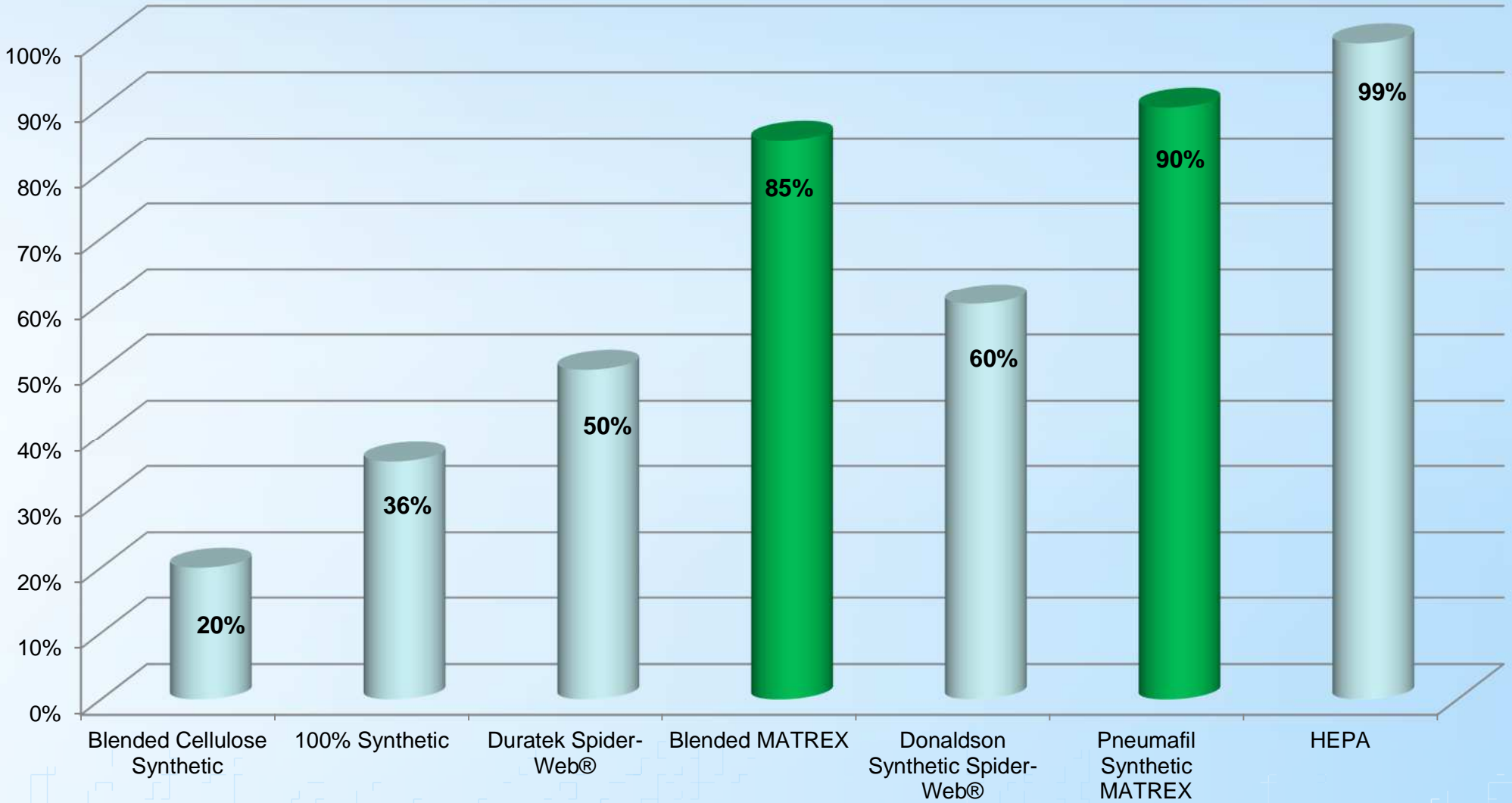
Number 99 % < 1 μm
Weight 30 % < 1 μm

E1 (Average Efficiency of 0.3 μ - 1.0 μ)



* Data from published ASHRAE 52.2 or 52.1 Testing

Fractional Efficiency of 0.3 μ - 0.4 μ Particles



* Data from published ASHRAE 52.2 or 52.1 Testing

Pneumafil **MATREX Filters™**

- Synthetic fiber membrane applied to blended or synthetic media substrate
- Promotes surface filtration of fine particles
- FR treatment available on Blended substrate
- Surface tension **repels water** up to 6" w.c.
- Higher initial efficiency of sub micron dust particles offers significantly better protection of turbine compressor.
- Superior performance at significantly lower cost than HEPA filters