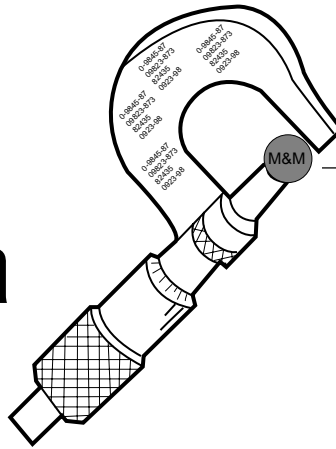


How big is a Micron anyway ?



An M&M is about 13,500 microns in diameter

- 1.** A micron (micrometer) is a measure of length (how far from here to there)
- 2.** A micron is one millionth of a meter (a meter = 39.37 inches)
- 3.** 0.000001 meter = one micron
- 4.** If you divide a meter into a million equal parts, each part would be a micron
- 5.** One micron would measure 0.000039 of an inch
- 6.** One inch contains 25,400 microns
- 7.** The 12th letter of the greek alphabet, mu (μ) is used as a symbol for micron
- 8.** A micron is smaller than a meter, but larger than a micromicron
- 9.** A micron is very small

Now that the technical discussion is out of the way for the cerebral types, here is something less technical (but maybe more creative) for the rest of us to consider.

There's lots of very small, micron size stuff in the air around us:

- Atmospheric dust <5 micron
- Human hair >5 micron
- Tobacco smoke <0.5 micron
- Cement dust >1 micron
- Stuff you can't see (fumes, oil aerosols & mists, smelter dust & fumes) <1 micron

(For more information on micron size contaminants see back page)

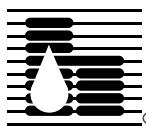
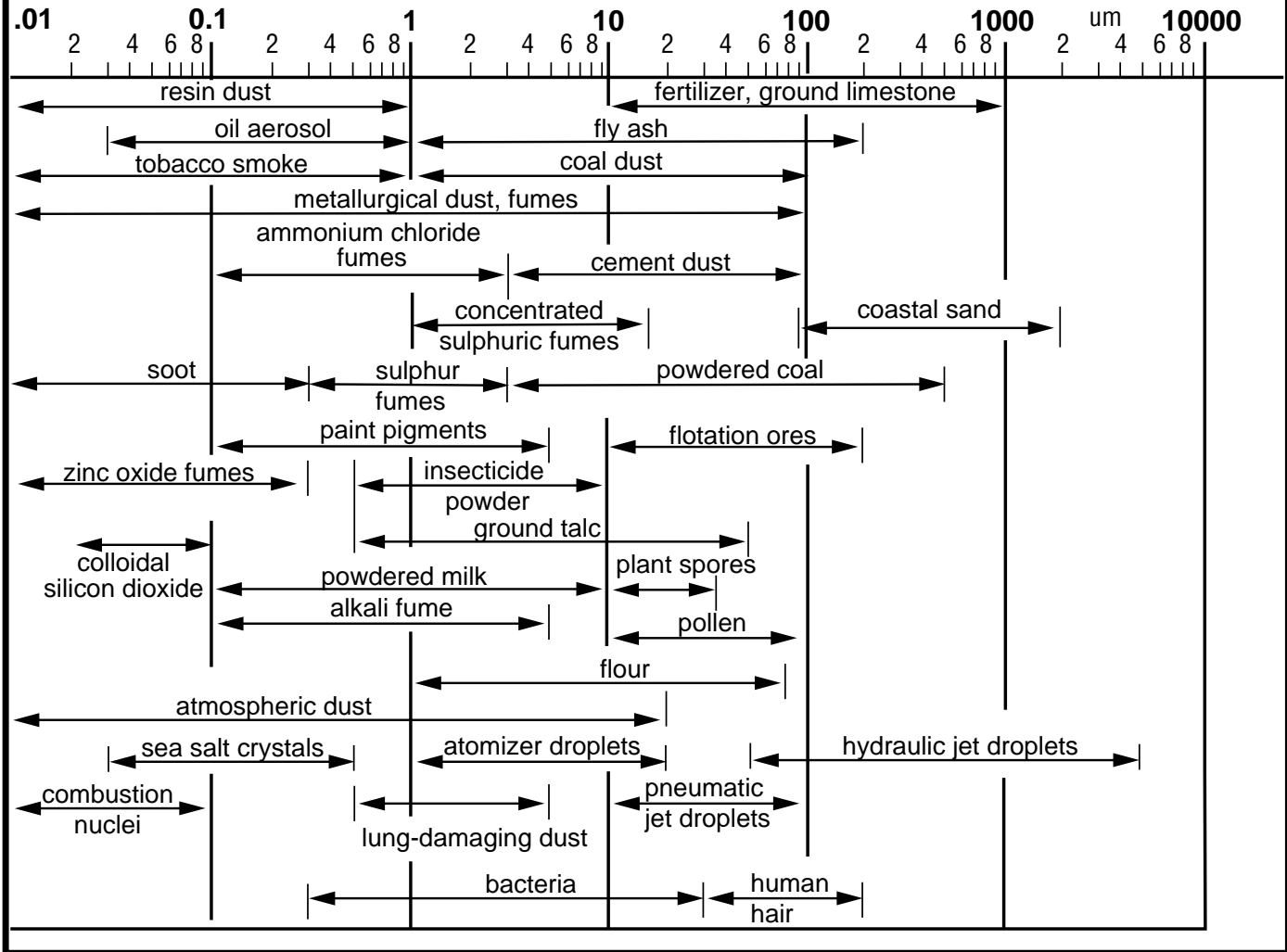
A lot of this micron size stuff enters your compressor intake with the atmospheric air. A typical air compressor intake filter removes particles 5 to 10 microns in size with about 90% efficiency. This leaves lots of particles (even in systems supplied by non-lubricated compressors) into your air system.

In lubricated compressors, micron sized oil droplets are introduced into the air stream. The air compressor oil separator/filter has about the same efficiency as the inlet filter.

In addition, vapors are sucked into the compressor intake and added inside the compressor. Some of these vapors condense into micron sized droplets downstream.

In conclusion- For really clean air, filters capable of removing this very small micron sized stuff are needed... that's why it's important to include filters with all quotations.

DIAMETER OF PARTICLES AND AEROSOLS



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