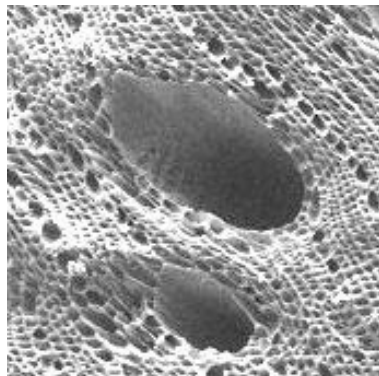


... to renew expensive taste and odor filters - regeneration



The Science

A molecule contacting a solid either: bounces off its surface, enters its surface (absorption), or adheres to its surface (adsorption) just as water molecules condense on a cool window.



Taste and odor molecules adsorb (condense) on activated carbon (AC) surfaces; they do not bond chemically with carbon. A small amount of AC contains vast surface area - 1 gram (1/30 oz.) contains surfaces equal to 3 football fields!

Evaporation, the reverse of condensation, occurs as a window warms. Liquid water molecules become water vapor again.

In a similar way, adsorbed taste and odor molecules are driven from carbon surfaces when an AC filter is heated.

Thermal Regeneration

Any activated carbon taste and odor filter may be returned to nearly-new condition by running hot water through it in both directions. Reversing the flow will dislodge and flush any sediments which may have collected during the filter's service.

This process may be repeated ad infinitum - saving the price of a new filter each time.