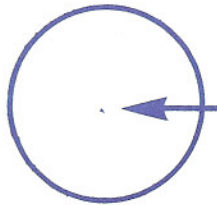


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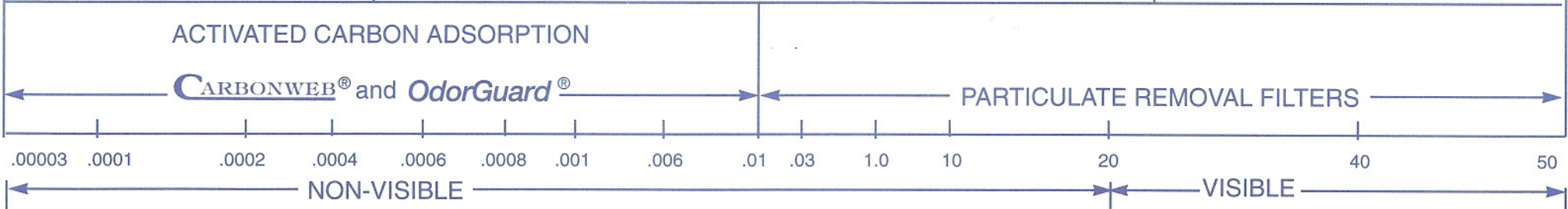
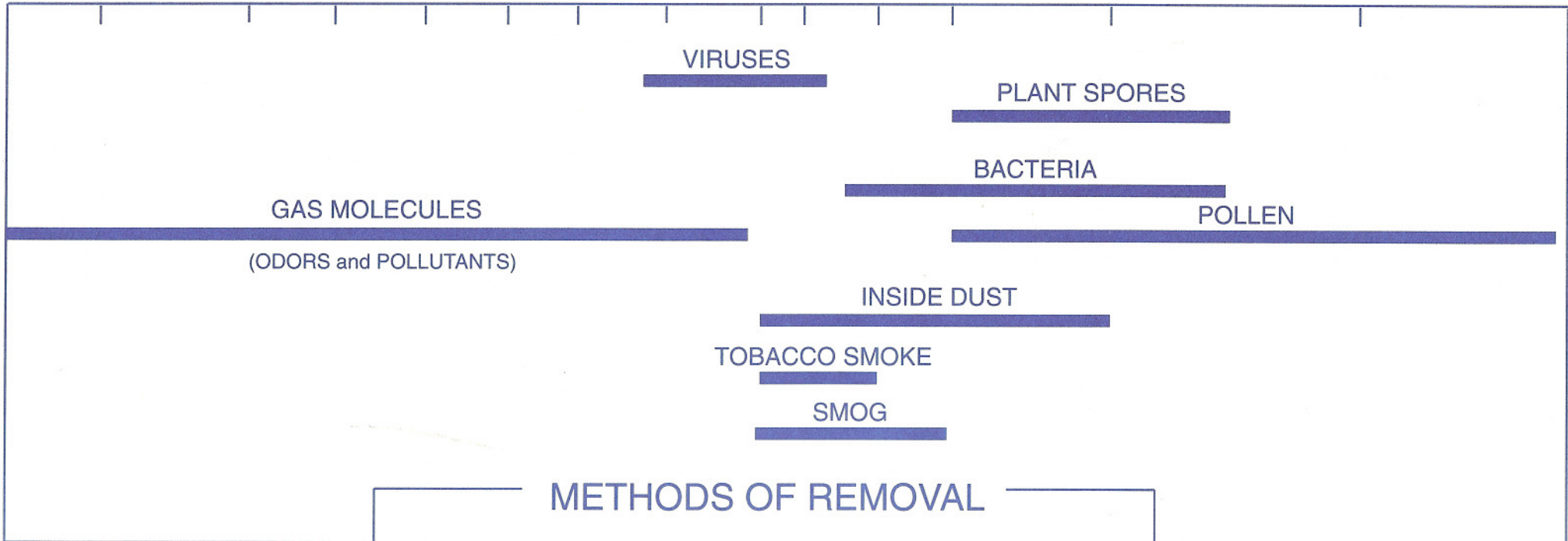


PENCIL DOT  
EQUALS  
50 MICRONS

## REMOVAL OF TYPICAL POLLUTANTS

MICRONS

.00003 .0001 .0002 .0004 .0006 .0008 .001 .006 .01 .03 1.0 10 20 40 50



# CARBONWEB® and OdorGuard® ODOR AND POLLUTANT CAPACITY INDEX CHART

Substance	Index	Substance	Index	Substance	Index	Substance	Index	Substance	Index	Substance	Index
Acetaldehyde	2	Cellosolve	4	Ethyl Amine	3	Irritants	4	Nitroglycerine	4	Sauerkraut	4
Acetic Acid	4	Cellosolve Acetate	4	Ethyl Benzene	4	Isophorone	4	Nitromethane	4	Sewer Odors	4
Acetic Anhydride	4	<b>Charred Materials</b>	4	Ethyl Bromide	3	Isoprene	3	Nitropropane	4	Skatole	4
Acetone	3	<b>Cheese</b>	4	Ethyl Chloride	3	Isopropyl Acetate	4	Nitrotoluene	4	<b>Slaughtering Odors</b>	3
Acetylene	1	<b>Chemicals</b>	3	Ethyl Ether	3	Isopropyl Alcohol	4	Nonane	4	<b>Smog</b>	4
<b>Acids</b>	3	Chlorine	3	Ethyl Formate	3	Isopropyl Ether	4	<b>Noxious Gases</b>	3	<b>Smoke</b>	4
Acrolein	1	Chlorobenzene	4	Ethyl Mercaptan	4	<b>Kerosene</b>	4	Octylene	4	<b>Soaps</b>	4
Acryaldehyde	3	Chlorobutadiene	4	Ethyl Silicate	4	<b>Kitchen Odors</b>	4	Octane	4	<b>Solvents</b>	3
Acrylic Acid	4	Chloroform	4	Ethylene	4	<b>Lactic Acid</b>	4	<b>Odors</b>	4	<b>Sour Milk</b>	4
Acrylonitrile	4	Chloro Nitropropane	4	Ethylene Chlorhydrin	4	<b>Lingering Odors</b>	4	<b>Odorants</b>	4	<b>Spilled Beverages</b>	4
<b>Adhesives</b>	4	Chloropicrin	4	Ethylene Dichloride	4	<b>Liquid Fuels</b>	4	<b>Onions</b>	4	<b>Spoiled Food Stuffs</b>	4
<b>Aged Manuscripts</b>	4	<b>Cigarette Smoke</b>	4	Ethylene Oxide	4	<b>Liquor Odors</b>	4	<b>Organic Chemicals</b>	4	<b>Stale Odors</b>	4
<b>Air Wick</b>	4	<b>Citrus and other fruits</b>	4	<b>Essential Oils</b>	3	<b>Lubricating Oils and Greases</b>	4	<b>Ozone</b>	4	<b>Stoddard Solvent</b>	4
<b>Alcohol</b>	4	<b>Cleaning Compounds</b>	4	Eucalyptole	4	<b>Lysol</b>	4	<b>Packing House Odors</b>	4	<b>Stuffiness</b>	4
<b>Alcoholic Beverages</b>	4	<b>Coal Smoke</b>	3	<b>Exhaust Fumes</b>	3	<b>Masking Agents</b>	4	<b>Paint and Redecorating Odors</b>	4	Styrene Monomer	4
Amines	2	<b>Combustion Odors</b>	3	<b>Fabric Finishes</b>	3	<b>Medicinal Odors</b>	4	<b>Odors</b>	4	Sulfur Compounds	3
* Ammonia	2	<b>Cooking Odors</b>	4	<b>Fecal Odors</b>	4	<b>Melons</b>	4	Palmitic Acid	4	* Sulfur Dioxide	2
Amyl Acetate	4	<b>Corrosive Gases</b>	3	<b>Female Odors</b>	4	Menthol	4	<b>Paper Deteriorations</b>	4	Sulfur Trioxide	3
Amyl Alcohol	4	<b>Creosote</b>	4	<b>Fertilizer</b>	4	<b>Mercaptans</b>	4	Paradichlorbenzene	4	Sulfuric Acid	4
Amyl Ether	4	Cresol	4	<b>Film Processing Odors</b>	3	Mesityl Oxide	4	<b>Paste and Glue</b>	4	<b>Tar</b>	4
<b>Animal Odors</b>	3	Crotonaldehyde	4	<b>Fish Odors</b>	4	Methane	1	Pentane	3	<b>Tarnishing Gases</b>	3
<b>Anesthetics</b>	3	Cyclohexane	4	<b>Floral Scents</b>	4	Methyl Acetate	3	Pentanone	4	Tetrachloroethane	4
Aniline	4	Cyclohexanol	4	Fluorotrichloromethane	3	Methyl Acrylate	4	Pentylene	3	Tetrachloroethylene	4
<b>Antiseptics</b>	4	Cyclohexanone	4	<b>Food Aromas</b>	4	<b>Methyl Alcohol</b>	3	Pentyne	3	Tetrahydrofuran	3
<b>Asphalt Fumes</b>	4	Cyclohexene	4	* Formaldehyde	2	Methyl Bromide	3	Perchloroethylene	4	<b>Theatrical Makeup Odors</b>	4
<b>Automobile Exhaust</b>	3	<b>Dead Aminals</b>	4	Formic Acid	3	Methyl Butyl Ketone	4	<b>Perfumes, Cosmetics</b>	4	<b>Tobacco Smoke</b>	4
<b>Bacteria</b>	3	Decane	4	Freon	3	Methyl Chloroform	4	<b>Perspiration</b>	4	<b>Toilet Odors</b>	4
<b>Bathroom Smells</b>	4	<b>Decaying Substances</b>	4	<b>Fuel Gases</b>	2	Methyl Cellosolve	4	<b>Persistent Odors</b>	4	Toluene	4
Benzene	4	<b>Decomposition Odors</b>	4	<b>Fumes</b>	3	Methyl Cellosolve Acetate	4	<b>Pet Odors</b>	4	Toluidine	4
<b>Bleaching Solutions</b>	3	<b>Deodorants</b>	4	<b>Gangrene</b>	4	Methyl Chloride	3	Phenol	4	Trichlorethylene	4
<b>Body Odors</b>	4	<b>Detergents</b>	4	<b>Garlic</b>	4	Methyl Chloroform	4	Phosgene	3	<b>Turpentine</b>	4
Bromine	4	Dibromomethane	4	<b>Gasoline</b>	4	Methyl Ether	3	<b>Pitch</b>	4	Urea	4
<b>Burned Flesh</b>	4	Dichlorobenzene	4	Heptane	4	Methyl Ethyl Ketone	4	<b>Plastics</b>	4	Uric Acid	4
<b>Burned Food</b>	4	Dichlorodifluoromethane	3	Heptylene	4	Methyl Formate	3	<b>Poison Gases</b>	3	Valeric Acid	4
<b>Burning Fat</b>	4	Dichloroethane	4	Hexane	3	Methyl Isobutyl Ketone	4	<b>Popcorn and Candy</b>	4	Valeric Aldehyde	4
Butadiene	3	Dichloroethylene	4	Hexylene	3	Methyl Mercaptan	4	<b>Poultry Odors</b>	4	<b>Vapors</b>	4
Butane	2	Dichloroethyl Ether	4	Hexyne	3	Methylal	3	Propane	2	<b>Varnish Fumes</b>	4
Butanone	4	Dichloromonofluoromethane	3	<b>Hospital Odors</b>	4	Methylcyclohexane	4	Propionaldehyde	3	<b>Vinagar</b>	4
Butyl Acetate	4	Dichloro-Nitroethane	4	<b>Household Smells</b>	4	Methylcyclohexanol	4	Propionic Acid	4	Vinyl chloride	3
Butyl Alcohol	4	Dichloropropane	4	Hydrogen	1	Methylcyclohexanone	4	Propyl 'Acetate	4	<b>Viruses</b>	3
Butyl Cellosolve	4	Dichlorotetrafluoroethane	3	Hydrogen Bromide	2	Methylene Chloride	4	Propyl Alcohol	4	Volatile Materials	3
Butyl Chloride	4	<b>Diesel Fumes</b>	3	Hydrogen Chloride	2	<b>Mildew</b>	3	Propyl Chloride	4	<b>Waste Products</b>	4
Butyl Ether	4	Diethyl Amine	3	Hydrogen Cyanide	3	<b>Mixed Odors</b>	4	Propyl Ether	4	<b>Waterproofing</b>	4
Butylene	2	Diethyl Ketone	4	Hydrogen Fluoride	2	<b>Mold</b>	3	Propyl Mercaptan	4	<b>Compounds</b>	4
Butyne	2	Dimethylaniline	4	Hydrogen Iodide	3	Monochlorobenzene	4	Propylene	2	<b>Wood Alcohol</b>	3
Butyraldehyde	3	Dimethylsulfate	4	Hydrogen Selenide	2	Monofluorotrichloromethane	3	Propyne	2	Xylene	4
Butyric Acid	4	Dioxane	4	* Hydrogen Sulfide	3	<b>Moth Balls</b>	4	<b>Putrefying Substances</b>	3		
Camphor	4	Dipropyl Ketone	4	<b>Incense</b>	4	<b>Naphtha (Coal tar)</b>	4	Putrescine	4		
<b>Cancer Odor</b>	4	<b>Disinfectants</b>	4	Indole	4	<b>Naphtha (Petroleum)</b>	4	Pyridine	4		
Caprylic Acid	4	<b>Embalming Odors</b>	4	Inorganic Chemicals	3	Naphthalene	4	<b>Radiation Products</b>	2		
Carbolic Acid	4	Ethane	1	<b>Incomplete Combustion</b>	3	<b>Nicotine</b>	4	<b>Rancid Oils</b>	4		
Carbon Bisulfide	3	Ether	3	<b>Industrial Wastes</b>	3	Nitric Acid	3	<b>Resins</b>	4		
Carbon Dioxide	1	Ethyl Acetate	4	Iodine	4	Nitro Benzene	4	<b>Reodorants</b>	4		
Carbon Monoxide	1	Ethyl Acrylate	4	<b>Industrial Wastes</b>	3	Nitroethane	4	<b>Ripening Fruits</b>	4		
Carbon Tetrachloride	4	<b>Ethyl Alcohol</b>	4	Iodoform	4	Nitrogen Dioxide	2	<b>Rubber</b>	4		

Some of the contaminants listed in the table are specific chemical compounds. Some represent classes of compounds and others are mixtures and of variable composition. Activated carbons capacity for odors varies somewhat with the concentration in the air, with humidity and temperature. The numbers given represent typical or average conditions and might vary in specific instances.

The capacity index has the following meaning-

4. High capacity for all materials in this category. One pound takes up about 20% to 50% of its own weight - average about 1/3 (33-1/3%). This category includes most of the odor causing substances.
3. Satisfactory capacity for all items in this category. These constitute good applications but the capacity is not as high as for category 4. Adsorbs about 10 to 25% of its weight - average about 1/6 (16.7%).
2. Includes substances which are not highly absorbed but which might be taken up sufficiently to give good service under the particular conditions of operation. These require individual checking.
1. Adsorption capacity is low for these materials. Activated Carbon cannot be satisfactorily used to remove them under ordinary circumstances.

\* For the asterisked compounds, impregnated carbon or activated alumina with KMnO<sub>4</sub> will greatly increase the adsorption ability.