

AirBench Carbon Filter Effectiveness

AirBench is available with a range of carbon filtration options. The following table details the effectiveness of our standard 208EA carbon filtration (as used in 'E', 'J', and 'M' range AirBenches) on a range of substances. For substances with a low efficiency, and those shown in italics, we recommend our 'R' configuration using Chemisorb carbon with alumina / potassium permanganate additive.

C Acetaldehyde	A Dibromoethane	A Human Odours	A Octane
A Acetic Acid	A Dichlorethane	D Hydrogen	A Onions
A Acetic Anhydride Acid	A Dichlorobenzene	C Hydrogen Bromide	A Ozone
D Acetilene	A Dichlorodifluoro Ethane	C Hydrogen Chloride	A Paint Odours
B Acetone	B Dichlorodifluoro Methane	C Hydrogen Cyanide	A Palmitic Acid
D Acetylene	A Dichloroethane	C Hydrogen Fluoride	A Paradichlorobenzene
B Acrolein	A Dichloroethyl Ether	B Hydrogen Iodide	B Pentane
B Acryaldehyde	A Dichloroethylene	C Hydrogen Sulphide	A Pentanone
A Acrylic Acid	A Dichloromethane	A Incense	B Pentylene
A Adhesives	B Dichloromonofluoro Methane	A Indole	B Pentyne
C Amines	A Dichloropropane	B Industrial Waste	A Perchloroethylene
D <i>Ammonia</i>	B Dichlorotetrafluoro Ethane	A Iodine	A Perfumes
C Amyl Acetate	A Diesel Fumes	A Iodoform	A Perspiration
B Amyl Alcohol	B Diethyl Amine	A Iodoform 3 Isoprene	A Petrol
B Amyl Ether	A Diethyl Aniline	B Iso Butane	A Phenol
A Aniline	B Diethyl Ketone	A Isopropyl	B Phosgene
A Animal Odours	B Diethylamine	A Isopropyl Acetate	A Plastics
A Antiseptics	B Dimethyl Amine	A Lactic Acid	C Propane
D Arsine	A Dimethyl Sulphate	A Leather	A Propionic Acid
A Athyl	A Dimethylaniline	A Lubricants	B Propionadbehyde
A Benaidehyde	A Dimethylsulfate	A Medicinal Odours	A Propyl
A Benzene	A Dioxane	A Mercaptan	A Propyl Acetate
A Bromine	A Dipropyl Ketone	A Mesilyl Oxide	A Propyl Chloride
C Butadiene	A Disinfectants	D Methane	A Propyl Mercaptan
A Butyl	A Embalming Products	B Methanol (Methyl)	B Propylene
A Butyl Acetate	A Essential Oils	B Methyl	B Purifying Odours
A Butyl Chloride	D Ethane	B Methyl Acetate	A Putrescine
B Butylene	B Ether	A Methyl Acrylate	A Pyridine
B Butyraldehyde	A Ethyl Acetate	B Methyl Alcohol	A Rancid Oils And Fats
A Butyric Acid	A Ethyl Acrylate	B Methyl Bromide	A Resins
A Camphor	B Ethyl Alcohol	A Methyl Butylketone	A Rubber
A Caproaldehyde	B Ethyl Amine	A Methyl Cellosolve	C Slaughterhouse Smells
A Caprylic Acid	A Ethyl Benzene	B Methyl Chloride	B Soap
A Carboic Acid	B Ethyl Bromide	A Methyl Chloroform	A Stale Odours
D Carbon Dioxide	B Ethyl Chloride	B Methyl Ether	A Styrene Monomer
B Carbon Disulphide	B Ethyl Formate	A Methyl Ethylketone	C <i>Sulphur Dioxide</i>
D Carbon Monoxide	C Ethyl Mercaptan	B Methyl Formate	B Sulphur Trioxide
A Carbon Tetrachloride	A Ethyl Silicate	A Methyl Isobutylketone	A Sulphuric Acid
A Cellosolve	B Ethylamine	A Methyl Mercaptan	A Tar Odours
A Cellosolve Acetate	A Ethylbenzene	A Methylcyclohexanol	A Tetrachloro Ethane
B Chloride	D <i>Ethylene</i>	A Methylcyclohexanone	A Tetrachloro Ethylene
B Chlorine	A Ethylene Chlorohydrin	A Methylene Chloride	A Tetrahydrothrophene
A Chloro Nitropropane	A Ethylene Dichloride	A Monochlorobenzene	C Tobacco Smoke
A Chloro Picrin	B Ethylene Oxide	B Monofluorolrichloro Methane	A Toilet Odours
A Chlorobenzene	A Eucalyptol	A Naphtha (Coal Tar)	A Toluene
A Chlorobutadiene	A Faecal Odours	A Naphtha (Oil)	A Toluidine
A Chloroform	B Farmacy Smells	A Napthalene	A Trichloro Ethylene
A Chloronitropropane	A Fertiliser	D N-Decane	A Turpentine
A Chloropicrin	B Film Developing	D N-Heptane	A Urea
A Chloroprene	C Fish Odours	A Nicotine	A Uric Acid
B Cigarette Smells	A Floral Odours	A Nitrotoluene	A Valeraldehyde
A Cleaning Solvents	B Fluorotrichloromethane	B Nitric Acid	A Valeric Acid
A Cooking Odours	C <i>Formaldehyde</i>	A Nitrobenzene	A Valeric Aldehyde
A Creosote	B Formic Acid	A Nitroethane	A Varnish
A Cresol	C Freon	C <i>Nitrogen Dioxide</i>	A Vehicle Exhaust
A Crontonaldehyde	A Gangrene Smell	A Nitroglycerine	A Ventilation Systems
A Cyclohexane	A Garlic	A Nitromethane	A Vinegar
A Cyclohexanol	A Heptane	A Nitropropane	B Vinyl Chloride
A Cyclohexanone	A Heptylene	A Nitrotoluene	B Wood Alcohol
A Cyclohexene	B Hexane	D N-Nonane	A Xylene
A Degreasing Solvents	C Hexylene	D N-Octane	
A Deodorants	A Hospital Odours	D N-Octylene	
A Detergents	A Household Smells	A Nonane	

A: Very effective - 20-50%
B: Good - 5-15%

C: Weak - 5% max - Consider 'R' configuration
D: Poor - Use 'R' configuration

Weight of pollutant adsorbed / Weight of carbon
Before efficiency diminishes