



Your Source for the Finest Quality
Filtration Systems

GAC Reference

Granular Activated Carbon (GAC) constitutes an excellent filtration media, having a high density with a balanced pore structure for more efficient adsorption. NWI uses a unique Granular Activated Carbon system to filter all the water to the home. GAC has long been recognized as an effective and reliable material for removing impurities. The primary raw material used for activated carbon is any organic material with a high carbon content. Once the carbon based materials are activated by thermal decomposition the resultant product has an incredibly large surface area per unit volume and a network of submicroscopic pores where the adsorption takes place. NWI uses a proprietary raw, natural organic material for activation, which creates an incredible surface area of more than 4 football fields per ounce of material, or over 5500 football fields of surface area for the 2-1/2 cubic feet used in the GAC-1354-WH7000 Our Granular Activated Carbon has been selected superior filtration.

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NEW WATER INNOVATIONS - FILTRATION SYSTEMS

Grandular Activated Carbon (GAC) Reference List

Below is a simple reference chart to give some perspective as to GAC's capabilities with various substances. Some items are heavy metals and inorganics, while others are VOC's (volatile organic compounds), some of which are man-made pollutants. Still other items, such as hardness, are not even considered contaminants. In general, GAC is very economical and a great compliment to municipally-treated water without the disadvantages of more aggressive filtration. GAC is used in all filtration due to its removal capacities.

Acetaldehyde	4	Emulsions	2	Precipitated Iron	2	Precipitated Sulfur	2
Acetic Acid	3	Ethyl Acetate	5	Lead	3	Propioic Acid	4
Acetone	4	Ethyl Acrylate	5	Lime	0	Propionaldehyde	3
Alcohols	4	Ethyl Alcohol	4	Mercaptans	4	Propyl Acetate	4
Alkalinity	1	Ethyl Amine	4	Metal Salts	1	Propyl Alcohol	4
Amines	3	Ethyl Chloride	4	Methyl Acetate	4	Propyl Chloride	4
Ammonia	1	Ethyl Ether	4	Methyl Alcohol	4	Radon	4
Amyl Acetate	5	Fertilizers	1	Methyl Bromide	5	Rubber Hose Taste	5
Amyl Alcohol	5	Fluorides	2	Methyl Chloride	4	Seawater	1
Antifreeze	4	Formaldehyde	2	Methyl Ethyl Ketone	5	Sediment	2
Arsenic	1	Gasoline	5	Naphtha	5	Soap	3
Benzene	5	Glycols	5	Nitrates	0	Sodium Hypochlorite	5
Bleach	5	HAA5s	5	Nitric Acid	3	Soluble Iron	2
Boron	1	Hardness	0	Nitrobenzene	5	Solvents	4
Butly Alcohol	5	Heavy Metals	3	Nitrotoluene	5	Sulfuric Ac id	1
Butly Acetate	5	Herbicides	5	Odors (General)	5	Sulphonated Oils	4
Calcium Hypochlorite	5	Hydrogen Bromide	2	Oil - Dissolved	5	Suspended Matter	2
Carbon Dioxide	0	Hydrogen Chloride	1	Oil - Suspended	2	Tannins	4
Chloral	5	Hydrogen Fluoride	1	Organic Acids	4	Tar Emulsion	4
Chloramine	4	Hydrogen Iodide	2	Organic Esters	5	Tartaric Acid	4
Chloroform	5	Hydrogen Peroxide	5	Organic Salts	4	Taste (DI Water)	4
Chlorine	5	Hydrogen Selenide	3	Oxalic Acid	5	Taste (From Organics)	4
Clorobenzene	5	Hydrogen Sulfide	3	Oxygen	5	THM's	5
Chlorophenol	5	Hydrochlorous Acid	5	Ozone	4	Toluene	5
Chlorophyll	4	Inorganic Acids	1	PCB's	5	Toluidine	5
Citric Ac id	4	Inorganic Chemicals	1	Pesticides	5	Trichlorethylene	5
Cresol	5	Insecticides	5	Phenol	5	Turpentine	5
Defoliants	5	Iodine	5	Phosphates	0	Urine	2
Detergents	3	Isopropyl Acetate	5	Plastic Taste	5	Vinegar	3
Diesel Fuel	5	Isopropyl Alcohol	5	Plating Wastes	3	Xanthophyll	4
Dyes	5	Ketones	5	Potassium Permanganate	4	Xylene	5

- KEY FOR ABOVE LIST
- 5- EXCELLENT - A proven application
 - 4- VERY GOOD - A proven application
 - 3- GOOD - very acceptable result
 - 2- FAIR - limited application
 - 1- POOR - not a recommended application
 - 0- Not an application for GAC

Municipal chlorination produces some harmful and carcinogenic by-products

Chlorination by-products