

FILTRATION MEDIA

ACTIVATED CARBON A coarse grade of carbon used in chlorine and taste & odor removal by adsorption. The 8 x 30 mesh size allows treatment with the least amount of flow loss, and filters particles 40 micron and higher.

ACTIVATED CARBON A fine grade of high quality carbon used for taste, odor, chlorine and organics removal, including VOCs. The 12 x 40 mesh size traps particles 30 micron and higher.

KDF-55 A bi-metal, copper-zinc, material used in chlorine, and heavy metal removal as well as the removal of corrosion and microorganisms. Chlorine is changed by the exchange of electrons and heavy metals bond to the media. Use in pH range of 6.5-8.5 and TDS greater than 150 ppm. KDF can control bacteria, algae, mold and fungi growth. When used with activated carbon, KDF 55 extends the life of the carbon media.

KDF-85 A bi-metal, copper-zinc, material used in iron and hydrogen sulfide removal. Iron is reduced and hydrogen sulfide is oxidized in this oxidation/reduction process. KDF can control bacteria, algae and fungi growth.

CENTAUR CARBON Centaur 12x40 is a liquid phase virgin activated carbon that has been manufactured from bituminous coal to promote catalytic reactions. Centaur can be used for the promotion of oxidation, reduction, decomposition, substitution and emanation reactions.

CALCITE Acidic waters on contact with calcite slowly dissolve the calcium carbonate media to raise the pH which reduces the potential leaching of copper, lead and other metals found in typical plumbing systems. Periodic backwashing will prevent packing and maintain high service rates. As the Calcite's calcium carbonate neutralizes the water, it will increase hardness and a softener may become necessary after the neutralizing filter.

COROSEX By neutralizing the free carbon dioxide in water, Corosex can correct red water conditions and render it to a non-corrosive condition. Corosex, being a reactive magnesium oxide, is used most effectively where pH correction is substantial or high flow conditions are in use. Corosex, being soluble to acidity, will have to be replenished periodically. Corosex can be effectively combined with Calcite to combine the high flow neutralization properties of Corosex, along with the slower reacting low flow properties of Calcite reducing potentially high basic properties due to overcorrection.

MANGANESE GREENSAND A gluttonite greensand that is a catalytic material, capable of removing iron, manganese, and hydrogen sulfide. This media must be regenerated intermittently with potassium permanganate or continuously with chlorine or a chlorine potassium permanganate mixture.

BIRM Birm is a light weight catalyst filter material used in iron and manganese removal. When sufficient dissolved oxygen is present, naturally or by air induction, an oxidizing reaction will take place. The oxidized iron or manganese is then filterable by the filter material. Birm is a plastic bead coated with naturally occurring manganese oxide.

PYROLOX Works on the principal of catalyst reaction for the removal of iron, hydrogen sulfide and manganese. Sufficient oxygen must exist in the water, naturally or by air induction. This media does not require regeneration but is a heavy material that requires vigorous backwashing on a daily basis.

MULTI-MEDIA Multi-media is reverse graded layers of filter media including anthracite, sand, garnet, and gravel. The largest and lightest material is on the top, trapping the largest particles. In descending order the next heaviest and smaller media traps the next largest particles, and so on until the smaller particle is trapped in the bottom layer. This process allows for higher flow rates and filtration down to 10 micron sized particles. Good for sediment, turbidity, and red water iron.

FILTER-Ag Filter-Ag granuals have irregular surface characteristics affording maximum removal of suspended matter through-out the filter bed. Filter-Ag can be applied to systems designed for either pressure or gravity flow. Filter-Ag has many outstanding advantages over the more common granular filter medias used for suspended solids removal. A substantial saving can be realized, when designing a system using Filter-Ag, because equipment can be smaller, requiring less square foot area. Filter-Ag is lightweight a substance with means additional saving in backwash rates. Filter-Ag typically removes the normal suspended solids, down to the the 20-40 micron range.

GRAVEL Gravel is used as a support to keep smaller medias out of the distribution system and to stop channeling of water. Minimum layers of 3" per size is suggested. A high proportion are rounded and tend toward a spherical shape.

SAND 99% of the water purified in the world today is accomplished by passing the water through "rapid sand filters". Theoretically the upper layer of the bed performs the filtration, while the lower layers provide the necessary support and assist in the hydraulics involved during the backwash cycle. The chemical and physical properties are important. The media must be hard, not smooth, and free of soluble particles.

GARNET Garnet is a naturally hard, durable, high specific gravity mineral. Resistance to attrition means less loss of media and shutdown time. High specific gravity means more control during backwash and lower losses to drain. The angular shape provides more ability to filter and longer production runs.

ANTHRACITE The use of anthracite coal as a filter media predates the 1930's. This is a particular hard coal product which is produced from selected Pennsylvania coals. These coals are not readily found and have low ash and friability while being high in anthraxylor. After selection, the coal is cleaned (reduction in ash content), screened and classified to the proper sized for water filtration purposes. The advantages in use versus silica and quartz sands and gravels are: longer runs between backwashes, higher flow rates without headloss, lower backwash water pressures and/or quantities, a greater utilization of the bed mass for filtration, and a volumetric higher surface area.

FILTRATION MEDIA SELECTION CHART							
FIG. NO.	DESCRIPTION	SIZE	PRICE	FIG. NO.	DESCRIPTION	SIZE	PRICE
51447	Activated Carbon (course grade)	1 cu. ft.		66341	Multi Media Pack for 18" tank	18" tank	
65382	Acid Wash Carbon	2 cu. ft.		51467	Multi Media Pack for 21" tank	21" tank	
50533	CPG Acid Washed Carbon	2 cu. ft.		48981	Multi Media Pack for 24" tank	24" tank	
47828	Filtersorb 300 8-30 mesh	2 cu. ft.		53052	Multi Media Pack for 30" tank	30" tank	
51593	Filtersorb 400 12040 mesh	2 cu. ft.		51973	Multi Media Pack for 36" tank	36" tank	
59967	Activated Carbon (fine grade)	1 cu. ft.		52221	Multi Media Pack for 48" tank	48" tank	
61672	KDF 55	1 cu. ft.		51448	Filter Ag	1 cu. ft.	
63853	KDF 85	1 cu. ft.		58206	Gravel 3/16 x #10	50 lb.	
51396	Centaur Carbon	1 cu. ft.		58205	Gravel 1/4 x 1/8	50 lb.	
47946	Calcite	50 lb.		58208	Gravel 1/2 x 1/4	50 lb.	
67851	Thomasville Lime	50 lb.		58209	Gravel 3/4 x 1/2	50 lb.	
52544	Limestone Chips	50 lb.		51777	Gravel 1-1/2 x 3/4	100 lb.	
47949	Georgia Marble XO White	50 lb.		40885	Sand #2	100 lb.	
51465	Georgia Marble 2 Grade	100 lb.		45173	Sand #3	100 lb.	
47947	Corosex I	50 lb.		45174	Sand #4	100 lb.	
51196	Corosex II	100 lb.		58204	Sand #5	50 lb.	
51449	Manganese Greensand	1 cu. ft.		60649	Garnet #8	100 lb.	
39849	Birm	1 cu. ft.		51458	Garnet #80-12	100 lb.	
44616	Fine Mesh Birm	1 cu. ft.		51445	Garnet #20	100 lb.	
45189	Pyrolox	50 lb.		51459	Garnet #30-40	100 lb.	
50321	Multi Media Pack for 10" tank	10" tank		51947	Anthracite #1	1 cu. ft.	
50317	Multi Media Pack for 13" tank	13" tank		51460	Anthracite #2	1 cu. ft.	
51626	Multi Media Pack for 14" tank	14" tank					
50631	Multi Media Pack for 16" tank	16" tank					