

Our Activated Carbon is genuinely activated and it is an extremely porous material that attracts and holds a wide range of harmful contaminants. Activated carbon is carbon which has a slight electro-positive charge added to it, making it even more attractive to chemicals and impurities. As the water passes over the positively charged carbon surface, the negative ions of the contaminants are drawn to the surface of the carbon granules.

Product: Coal Base Granular Activated Carbon  
 Origin: India  
 Mesh Size: 4/8  
 Packing: 25kgs per Bag

**How it Works:** There are two principal mechanisms by which activated carbon removes contaminants from water; adsorption, and catalytic reduction, a process involving the attraction of negatively-charged contaminant ions to the positively-charged activated carbon. Organic compounds are removed by adsorption and residual disinfectants such as chlorine and chloramines are removed by catalytic reduction.

	Bacteria and Viruses	Bad Tastes & Odors	Chlorine	Fluoride	Hydrogen Sulfide	Heavy Metals	Nitrates	Radon	Sediment	Iron	VOC's
	○	●	●	○	◐**	◐	○	●	◐ to ●	○	●

● = Effectively Removes      ◐ = Significantly Reduces      ○ = Minimal or No Removal

**Details Specifications:**

Appearance : Black Granular  
 Moisture : max 5%  
 Hardness : min 85%  
 pH : 9-10  
 Iodine Value : 600-700 mg/gm min  
 Bulk Density : 0.50 g/ltr  
 Ash : max 5%  
 Surface Area : 500m<sup>2</sup>/gm  
 CTC Adsorption : min 45%

**Application:** Activated carbon filtration is very common in a number of home water treatment and Industrial Water Treatment systems. It can be used as a standalone filter to reduce or eliminate bad tastes and odors, chlorine, and many organic contaminants in municipal (pre-treated or chlorinated) water supplies to produce a significantly improved drinking water. It is also very commonly used as a pre-treatment as part of a reverse osmosis system to reduce many organic contaminants, chlorine, and other items that could foul the reverse osmosis membrane. 0.5 micron carbon block filters are commonly used to remove cysts such as giardia and cryptosporidium.

**Typical Maintenance:** Activated carbon filters require very little maintenance, however, it is very important to ensure that filter replacement schedules are followed to ensure proper filtration at all times. Do not wait for bad tastes and odors to return to the water before deciding the filter needs replacement as this is an indication that the filter is no longer able to completely remove contaminants and that it has surpassed its service life