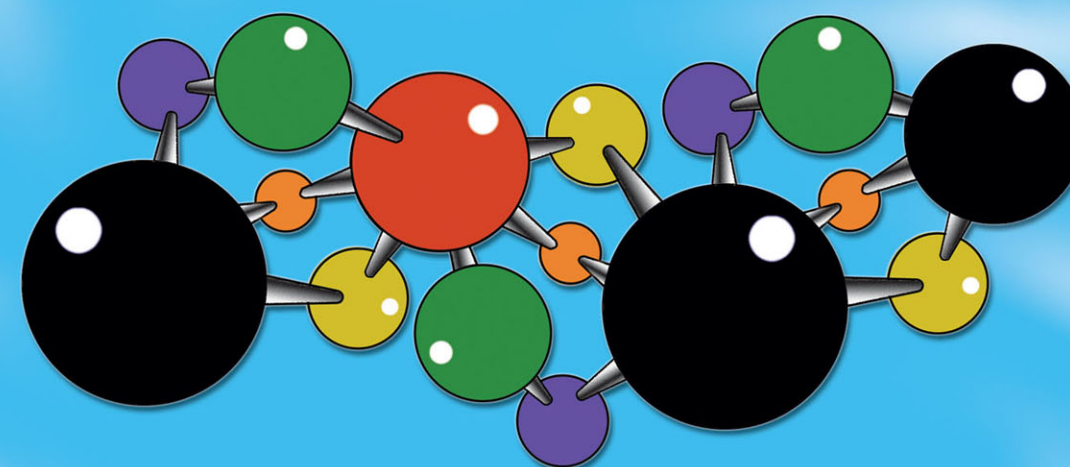
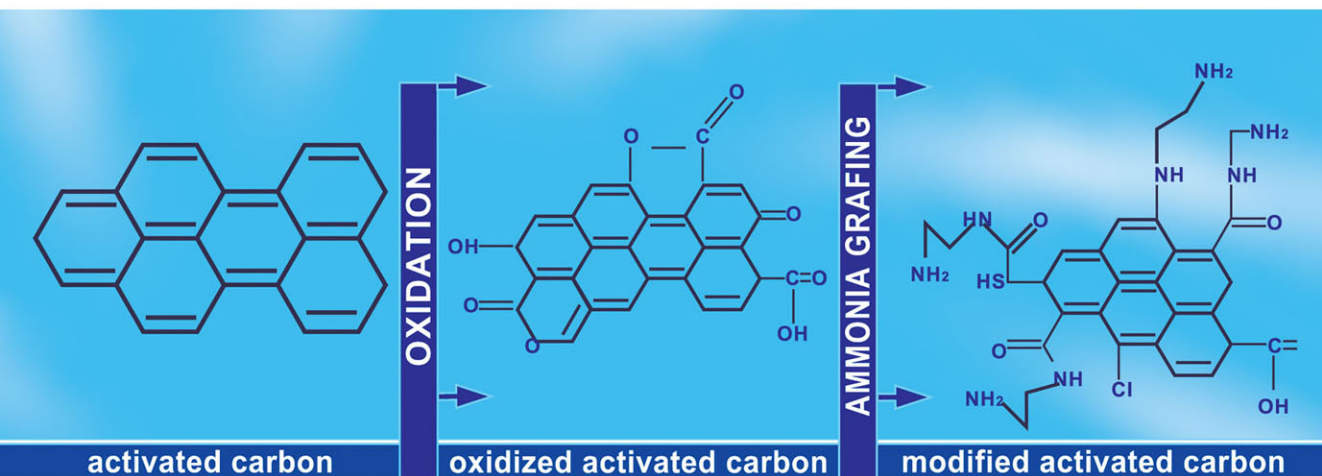


HIGH PERFORMANCE

FX greenblock[®] & **FX** greencarbon[®]

with EPCTM Technology
 (Enhanced Physisorption & Chemisorption)



Write to us for details:
FILTREX TECHNOLOGIES PVT LTD:
 email : vgaur@filtrex.co.in
 or : info@filtrextechnologies.com
<http://www.filtrextechnologies.com>

FX - BRAND INSIDE THE BRANDS[®]

OFFERS INDUSTRIES LEADING PERFORMANCES FOR:

- VOC ● HEAVY METALS ● CHLORAMINES ●
- FLUORIDES ● NITRATES ● BIOSTATIC ●

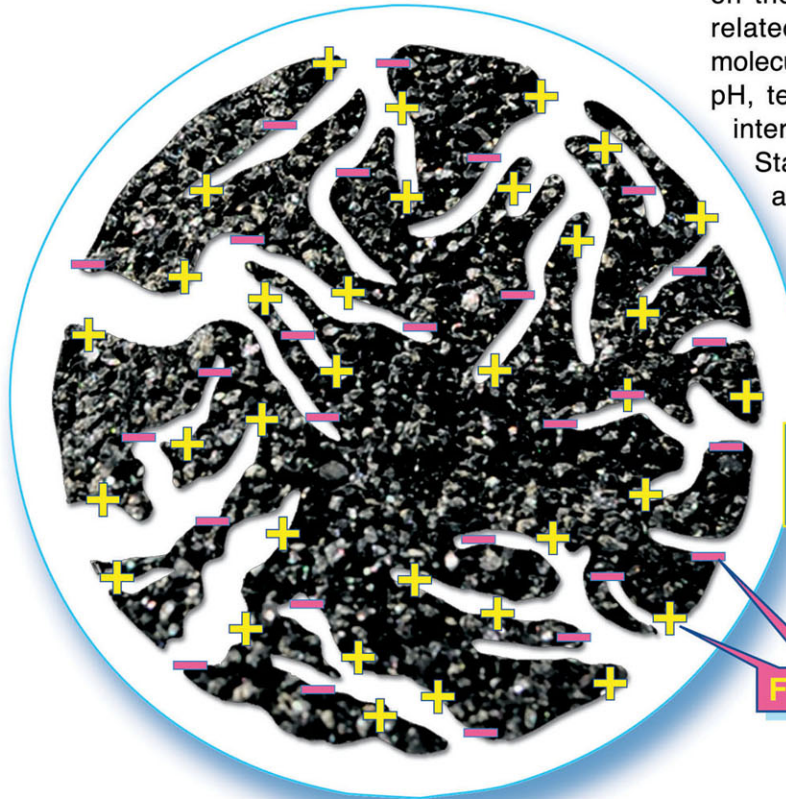
GAC & Carbon Blocks
 Certified By **NSF**   

STANDARD ACTIVATED CARBON

is a *porous material* manufactured from carbonaceous raw material such as wood, peat, coconut shell and coal. The activation process develops a myriad of pores of molecular dimensions within the carbon which together constitutes an enormous internal surface area and pore volume.

PHYSISORPTION or Physical Adsorption is the adsorption mechanism in which mainly Van der Waals forces (inter molecular forces) are involved in attracting the molecules of the contaminants from the liquid or gases into the internal surface of the carbon atoms matrix.

The process of *physisorption* depends on the strength of the forces which is related to several factors like the molecular structure of the carbon medium, pH, temperature, solvent-solute interactions, and pore-size distribution. Standard carbons have large surface area and rely mostly on physisorption for the reduction of contaminants.



ACTIVATED CARBON PORE STRUCTURE

FUNCTIONAL GROUPS

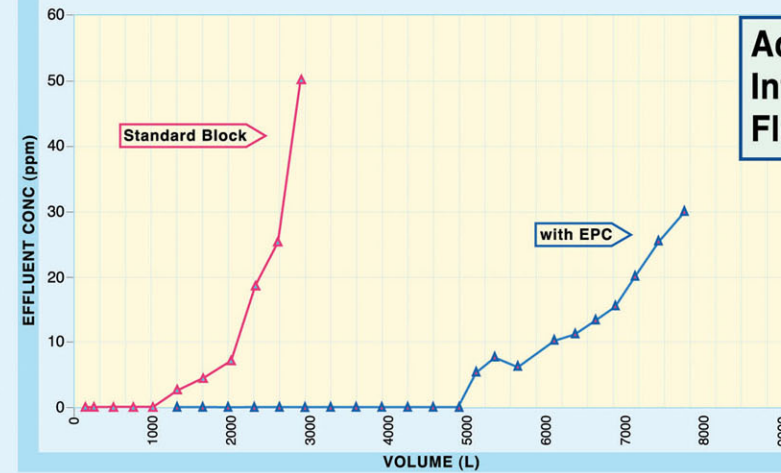
EPC™ TECHNOLOGY:

To increase the adsorption performance of carbon beyond physisorption, the carbon is surface modified enabling to also have the capacity for chemisorption. The carbon is treated such that the surface and inner-pores are doped with different heteroatoms such as N, O, S, P, etc. These heteroatoms are present in the form of functional groups attached to the carbon basal plane. These charged functionalities enhance the affinity to target specific impurities which are difficult

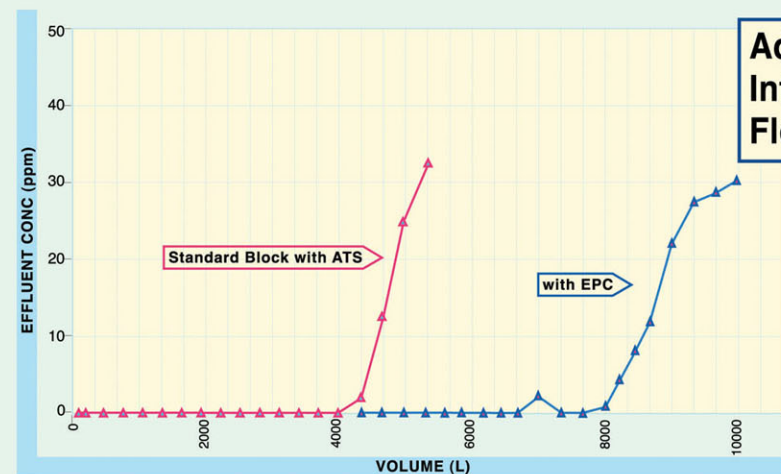
to be adsorbed only by physisorption. These functional groups of the treated carbon react with the impurities chelating to form stable compounds within the carbon.

Our proprietary process know-how disperses enormous charges on the carbon and also within the pores of the carbon. The unique surface modification treatment process ensures that the physical adsorption capacity of the carbon is still maintained.

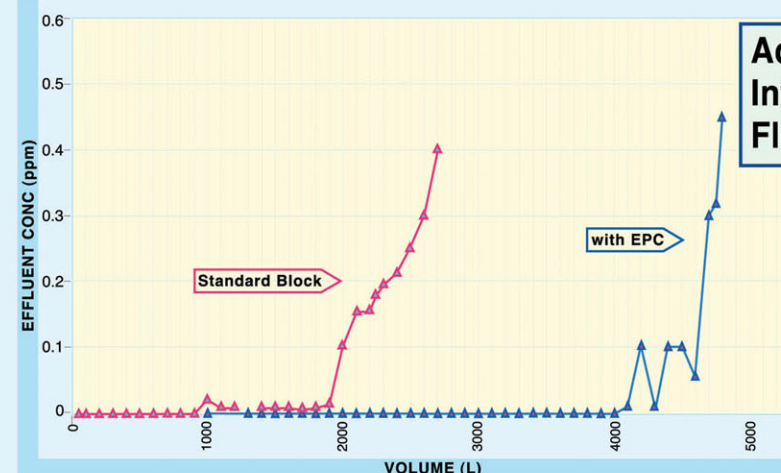
COMPARATIVE DATA OF STANDARD 10" BLOCK (OD-60mm, ID-32mm, L-235mm)



Adsorption of Chloroform
Influent - 300ppb
Flow Rate - 2LPM



Adsorption of Lead
Influent - 150ppb
Flow Rate - 2LPM



Adsorption of Chloramine
Influent - 3ppm
Flow Rate - 2LPM

