



Active carbon particles are in black powder, pellets and granules state.

In large capacities; Used as filters in tank type which contain active carbon.

In smaller capacities; Used as vessels fixed in standard cartridge filter "Block Activated Cartridge Filters" and plugged into Shell vessels "Granules Activated Carbon Cartridge Filters"

## BLOCK ACTIVATED CARBON CARTRIDGE FILTERS

Activated carbon, also called activated charcoal, is a form of carbon that has been processed with oxygen to create millions of tiny pores between the carbon atoms. This increases the surface area of the substance from 500 to 1500m<sup>2</sup>/g, or 300-2,00 square meters per gram. One pound of activated carbon has the surface area equivalent of six football fields.

The increased surface area of activated carbon makes the material suitable for adsorption, a process by which impurities in substances such as fluids, vapors or gas are removed. Impure molecules are held within the carbon's internal pore structure by electrostatic attraction or chemisorption. The adsorption process helps carbon reduce dangerous matter, activate chemical reactions, and act as a carrier of biomass and chemicals.

The main issues about using active carbon filters are change this filters periodically and disinfecting water before and after filtration, because of this filters first of keep organic materials and create good habitat for feed bacterias with this organic materials. In these cases the formation of the activated carbon filter may occur leakage of the bacteria.

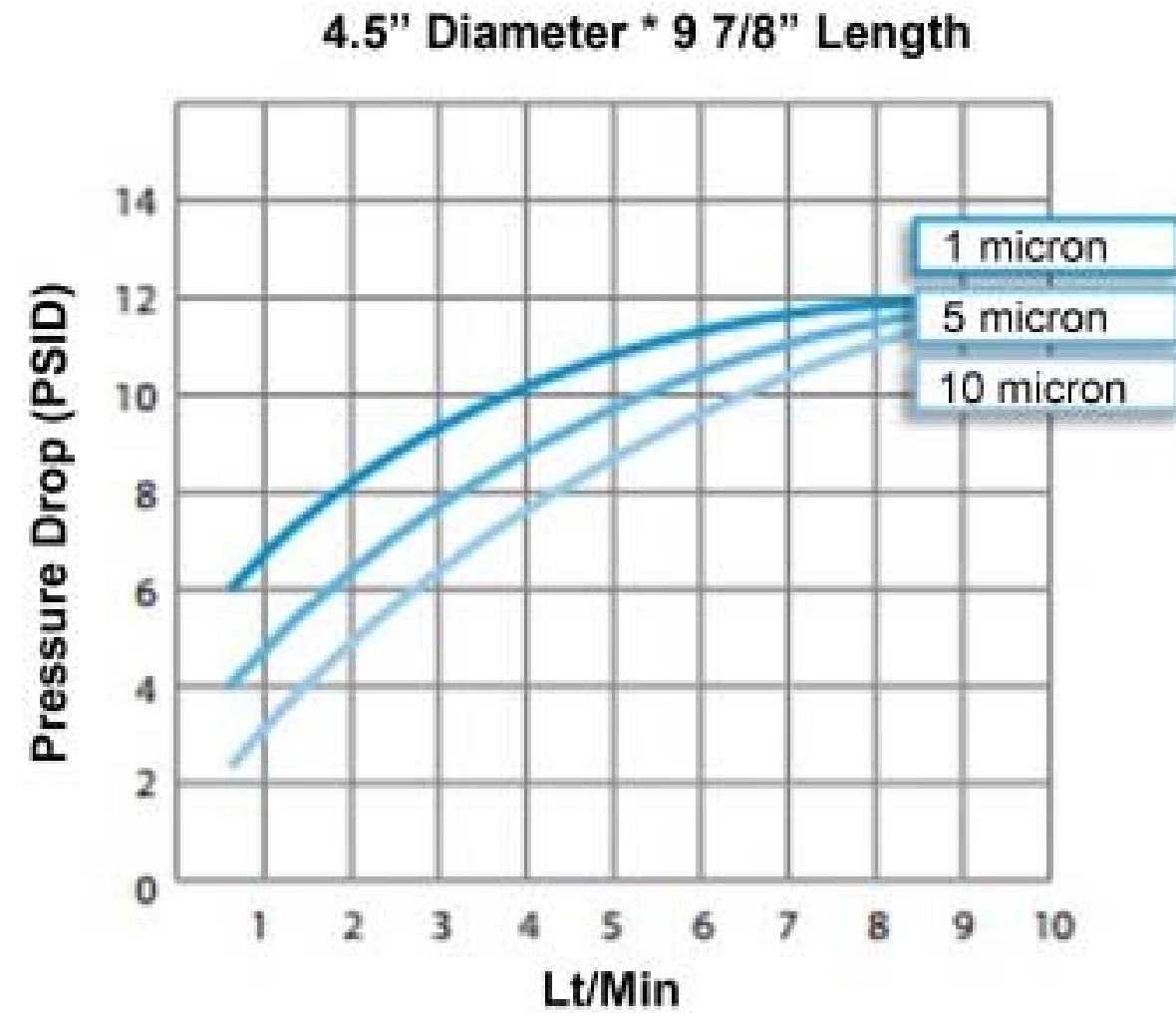
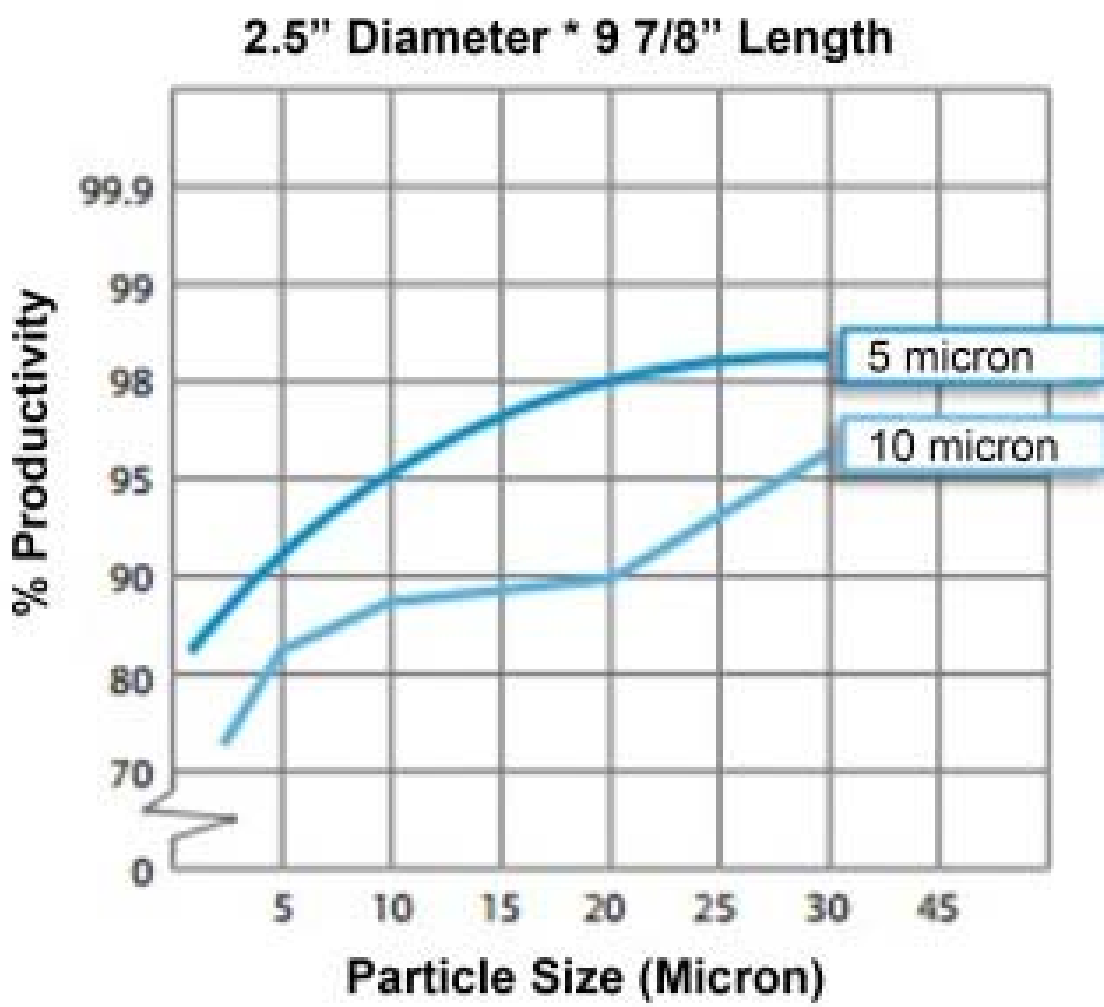
This change period of active carbon filters depends on; quality of raw water, pollution degree of water and process, compositions of this pollution and capacity of raw water.



## ACTIVATED CARBON FILTERS BLOCK Block Activated Carbon Cartridge Filters

### TECHNICAL SPECIFICATION

Filter Media	Activated Carbon
Cartridge Type	Double open end (DOE), Single open end (SOE)
Open End Caps	End cap and flat gasket end cap and 222 O-ring, 226 O-ring
Closed End Caps	End cap and spear end cap
Bot and Top Caps Materials	Polypropylene
Wrapping Material	Polypropylene
Gasket and O-ring Materials	Slicon, NBR, EPDM, Viton
Length	5-10-20-30-40 inch
Outer Diameter	69 +/- mm
Max. Work Temperature	80 °C



### PROSES TİCARET İMALAT MÜHENDİSLİK ENDÜSTRİYEL MADDE VE MALZEME İMALATI İNŞAAT VE SANAYİ LTD. ŞTİ.

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