PROACTIVE™ 20 X 50 SUPERCAT™ COCONUT SHELL CARBON

ProActive™ 20 x 50 SuperCat™ Coconut Shell Carbon (P/N IT50003SC) is a dual-function activated carbon. It offers a high activity for the removal of both chloramines and chlorine from water, while, at the same time, it retains the inherent superiority of coconut shell carbons for removing trace organics. Like other coconut carbons, it has a higher hardness, lower dust level, and lower levels of soluble ash than standard coal-based carbons. ProActive SuperCat Coconut Shell Carbon is Certified to NSF/ANSI Standard 61.

Specifications

Gas Adsorption Capacity	55% minimum
Moisture Content	5% maximum
Particle Size	20 x 50 mesh
Iodine Number	1250 minimum
Ash Content	3% maximum
Ball Pan Hardness	98
Bulk Density	46 g/cm^3
Packaging	56 lb (2 cu.ft.) bag

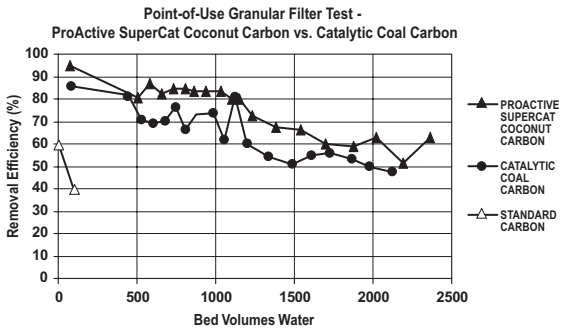
Particle size distribution will be 5% maximum on the top screen and 5% maximum through the bottom screen. If the moisture exceeds 5%, BSC weight adjusts.

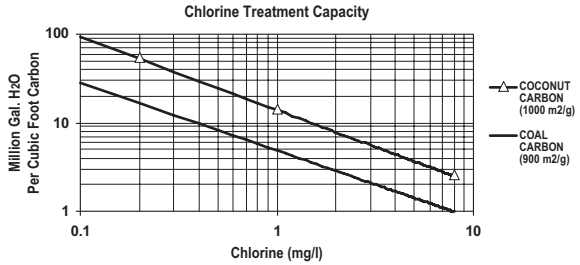
Catalytic Chloramine Removal

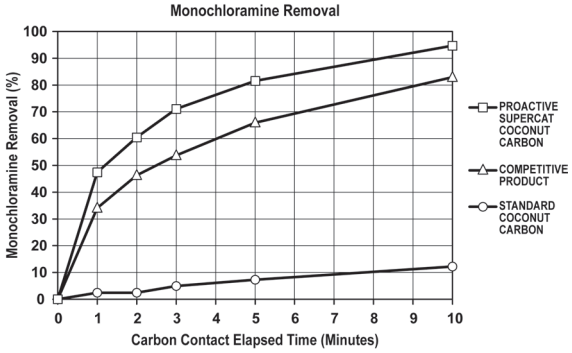
Many municipalities now use chloramines instead of chlorine to disinfect water supplies; chloramines can also form after conventional chlorination via reaction with nitrogen-containing organics. Because standard activated carbons do not remove chloramines well, SWT is introducing this surface-modified carbon, designed specifically to catalyze monochloramine (NH_2Cl) decomposition.

Trace Organic Capacity

ProActive SuperCat Coconut Shell Carbon, a highly microporous carbon, also offers superior removal of chloroform, THM, and MTBE when compared to other coconut shell or coal-based carbons.







ProActive SuperCat Coconut Carbon Performance Comparison

The *top left figure* shows an accelerated test of ProActive SuperCat Coconut Carbon and a coal-based catalytic carbon. Standard 2.5 x 9 inch water filter cartridges containing granular carbon were tested at 1 gpm water flow (11 sec. empty bed contact time). At higher empty bed contact times (greater than 2 minutes), ProActive SuperCat Coconut Carbon reduced monochloramine from 3 ppm to non-detect levels. The *bottom left figure* shows kinetic tests of the monochloramine decomposition reaction with several different carbons.

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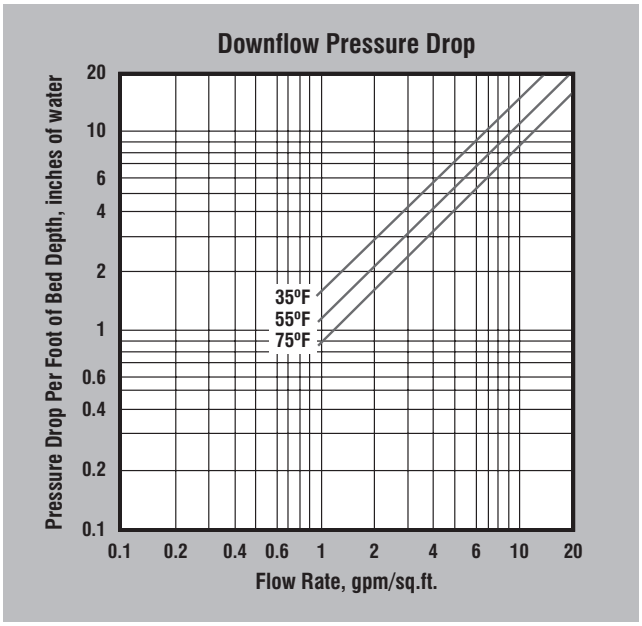
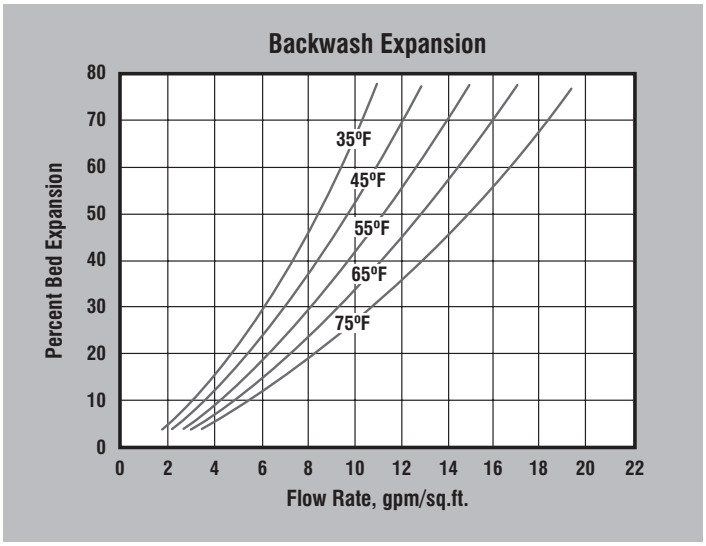
PROACTIVE™ 20 X 50
SUPERCAT™ COCONUT SHELL CARBON



PRESSURE DROP — The graph above shows the expected pressure loss per foot of bed depth as a function of flow rate at various temperatures.



BACKWASH — After each cycle the carbon bed should be backwashed at a rate that expands the bed 30 to 50 percent. This will remove any foreign matter and reclassify the bed. The graph above shows the expansion characteristics of ProActive 20 x 50 SuperCat Coconut Shell Carbon.

Warning

For safety and handling purposes, we recommend appropriate protective measures when entering a wet vessel containing granular activated carbon, because wet activated carbon depletes oxygen from air and therefore, dangerously low levels of oxygen may be encountered. In such a case, the oxygen level inside the vessel shall be determined before entering and appropriate protective equipment should be worn when entering, or leave the vessel open until the oxygen level in the vessel is normal.

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