



SWT PROACTIVE™ GAC SHELF-LIFE STATEMENT

Activated carbon is an amorphous form of carbon. The amorphous structure creates a unique pore structure that creates adsorption pores where organic compounds are physically adsorbed.

It is feasible that the adsorption capacity of activated carbon can be maintained after many years of storage. The packaging used for SWT's ProActive granular activated carbons is of the highest quality available, however, even when stored under ideal conditions the adsorptive properties of the product have the potential to deteriorate over time.

Storage of activated carbon does not normally require any specific temperature controls (refrigeration or heated storage). Storage in ambient conditions in a covered warehouse, to prevent excessive degradation of packaging due to UV exposure is adequate. Additional specific considerations are detailed in the material Safety Data Sheet for the specific product in question, on request.

If activated carbon is stored for extended periods (normally three years or more) and concern over the condition of the product is determined, it is recommended that the adsorptive properties and other critical parameters should be validated prior to the product being put into service.

Standard grade virgin and reactivated carbons (not powdered carbon) for water filtration have an indefinite shelf life when stored in proper conditions. They are not impregnated and typically have a moisture content less than 10% by weight as packed. During storage it is normal for the moisture content to equilibrate with the storage conditions. This is normally at relatively low levels of change. It is recommended that the standard and reactivated grade carbons do not require testing until a period of five (5) years of storage has elapsed.

Standard grade activated carbons that are moisturized (greater than 10% moisture content, by weight, as packed) are more susceptible to a change in moisture content and the suitability for use. It is recommended that the moisturized carbons are tested after one (1) year of storage for moisture homogeneity and biological activity if used in a food or potable water treatment process without subsequent downstream sterilization processes.

Products that are manufactured with enhanced catalytic capability (SWT's ProActive SuperCat GAC), for use in applications such as the removal of hydrogen sulfide or monochloramine in water can exhibit a decrease in performance over time. Although this can be controlled to some degree with specific packaging, it is recommended that these materials are retested every 18 months.

For further guidance on the correct storage conditions for activated carbons supplied by SWT, please consult the relevant Safety Data Sheet for the grade of material concerned. These guidelines are recommendations only and it is the responsibility of the user to ensure the activated carbon is of acceptable quality and suitable for the application intended. All shelf-life times are subject to the product being stored in undamaged original packaging as supplied by Safe Water Technologies or their appointed distributor.