



# GCS-830

## COCONUT SHELL GRANULAR ACTIVATED CARBON

### Aquatrol GCS-830 coconut shell granular activated carbon

GCS-830 is a high quality coconut shell activated carbon for the removal of dissolved organic contaminants from water, wastewater and process liquids. The list of contaminants include taste and odor compounds, organic color, total organic carbon (TOC) and industrial chemicals such as chlorinated solvents (PCE, TCE).

Aquatrol GCS-830 is produced under controlled conditions through high temperature steam activation. Its pore structure enables it to be used for adsorption of both high and low molecule weight impurities from water and diverse liquids.

GCS-830 carbon is especially effective for adsorbing trace organic compounds such as vinyl chloride, MTBE, methylene chloride and trihalomethanes/disinfection by-products. GCS-830 is certified to NSF/ANSI 61 standard and complies with the requirements for activated carbon as defined by the Food Chemicals Codex (FCC) (8th Edition) published by the U.S. Pharmacopeia.

### DESIGN CONSIDERATIONS

Aquatrol GCS-830 coconut shell activated carbon is typically applied in down-flow packed bed operations using both pressure and gravity systems. Design considerations for a carbon system should be based on the user's operating conditions, treatment objectives desired, and the chemical nature of the compounds being adsorbed. Downflow superficial velocity can be from 1 gpm/ft<sup>2</sup> to 10gpm/ft<sup>2</sup>, depending on the application.

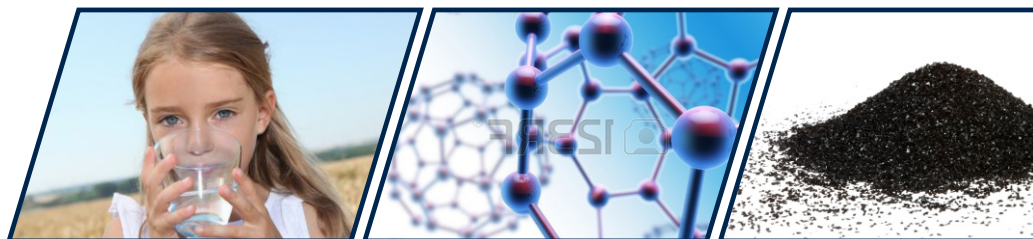
### APPLICATIONS

Aquatrol GCS-830 coconut shell activated carbon can be used in a variety of water, wastewater and process liquid applications for the removal of dissolved organic compounds. GCS-830 can be used in applications such as process water purification, wastewater treatment and industrial chemical purification.



This product has been tested and certified by NSF International against NSF/ANSI Standard 61 for material requirements only.

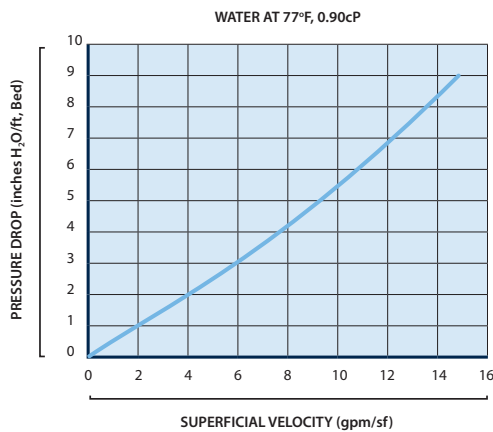
#### COMPONENT



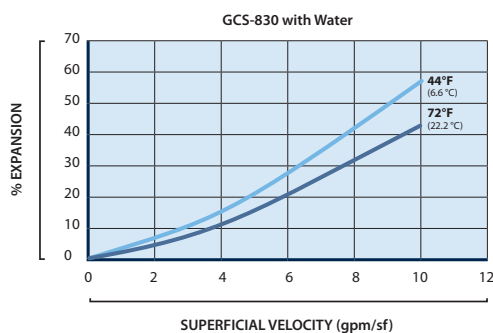
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### TYPICAL PRESSURE DROP (GCS-830)



### TYPICAL BED EXPANSION DURING BACKWASH



### FEATURES

- Coconut shell carbon
- High mechanical strength
- Low ash

### BENEFITS

- Strong adsorbing pore structure optimal for the treatment of chlorine and other organics.
- Hardness and abrasion resistance required for thermal reactivation and minimizing fines when operations backwashing is required.
- Provides a wide range of contaminant removal capabilities.

Specifications	GCS-830
Iodine Number, mg/g	1000 (min)
Ash, wt%	5.0 (max)
Moisture (As Packaged), wt%	5 (max)
Density (Apparent), g/cc	0.44 (min)
Hardness Number	95 (min)
8 US Mesh [2.4 mm], wt%	5 (max)
< 30 US Mesh [0.595 mm] (PAN), wt%	4 (max)

### PACKAGING

1 Cu. Ft. Bag  
28 Lbs Bag  
Super Sack Available

### SAFETY MESSAGE

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable federal and state requirements. Please refer to the MSDS for all up to date product safety information.



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COMPONENT

LIT-GCS-830-DS 11/27/18