

# HYDROSPHERE TECHNOLOGIES, LLC™

## HYDROSPHERE HCAT-100E Cation Resin:

provides a high purity, premium cation resin designed for the treatment of foods, beverages, potable waters, and water used in the processing of food. Hydrosphere HCAT-100E resin is a high grade resin which complies with the U.S. Food & Drug Administration (USFDA) CFR 21, Title 173.25 for use in the treatment of foods for human consumption.

## HYDROSPHERE HCAT-100E Cation Resin:

has excellent hydraulic characteristics for optimal flow rate and backwash flow rates. Its high capacity and porosity characteristic provide exceptional kinetic behavior along with good physical, chemical and thermal stability.

## Chemical and Thermal Stability

Hydrosphere HCAT-100E is insoluble in dilute or moderately concentrated acids, alkalis, and in all com-mon solvents. Thermally stable to higher than 248°F (120°C) in alkalis such as, sodium or alkaline earth like calcium and magnesium salt forms.

HCAT-100E Resin Specifications	
Part Number	Description
HCAT-100E	Hydrosphere Strong Acid Cation Resin, 1 cu. ft. Bag
HCAT-110E	Hydrosphere Hi-Cap Acid Cation Resin, 1 cu. ft. Bag

## Product Specifications

Flow Rate of Regenerate Solution: 17.6 - 26.4 Gpm (4 - 6 M/Hr) 44 - 198  
 Operating Flow Rate: Gpm (10-45 M/Hr) 44 - 88 Gpm  
 Rinse Flow Rate: (10- 20 M/Hr)  
 Regenerate Contact Time: 30-60 Min  
 Rinse Time: 30Min  
 Crosslink: 8%

## Applications

Hydrosphere by Aquatrol HGCS Series Coconut Shell Activated Carbon can be used in a variety of water, wastewater and process liquid applications for the removal of dissolved organic compounds. HGCS Series can be used in applications such as process water purification, wastewater treatment and industrial chemical purification.

## Hydrosphere HGCS Series Coconut Shell Granular Activated Carbon

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).

## Hydrosphere HGCS Series Coconut Shell Granular Activated Carbon

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.

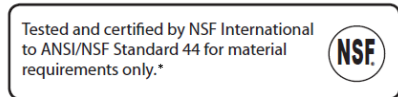
## Hydrosphere HGCS-1240 & HGCS-830

is especially effective for adsorbing trace organic compounds such as vinyl chloride, MTBE, methylene chloride and trihalomethanes/disinfection by-products. HGCS-1240 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.

HGCS Series Specifications	
Part Number	Description
HGCS-1240	Hydrosphere Coconut Shell Activated Carbon, 12X40, 1 cu. ft. Bag
HCAT-110E	Hydrosphere Coconut Shell Activated Carbon, 8X30, 1 cu. ft. Bag

## Product Specifications

Flow Rate of Regenerate Solution: 17.6 - 26.4 gpm Density (Apparent), g/cc: 0.48 (min)  
 (4 - 6 m/hr) Hardness Number: 95 (min)  
 Iodine Number, mg/g: 1000 (min) 12 US Mesh [1.70 mm], wt%: 5 (max)  
 Ash, wt%: 4.0 (max) <40 US Mesh [0.425 mm] (PAN), wt%: 4 (max)  
 Moisture (As Packaged), wt%: 5 (max)

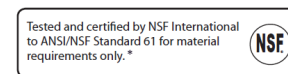


## Application

This product is mainly used for softening hard water and preparing pure and high purity water. In addition, it is used in separation and purification of trace elements as well as hydro-metallurgy and pharmaceutical industry.

## CARBON GAC

*Coconut Shell Granular Activated Carbon*



## Applications

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