

Media

2023 - 2024



GAC



Resin



Zeolite

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Media

Table Of Contents



Media

1. **MED-GCS Series – Granular Activated Carbon**
2. **MED-CAT Series – Ion Exchange Resin**
3. **MED-MB Series – Mixed Media Bed Resin**
4. **ZX-55 Series – Zeolite Filtration Media for Sediment Removal**



Tested and certified by NSF International to ANSI/NSF Standard 61 for material requirements only.



CARBON GAC

Coconut Shell Granular Activated Carbon

AQUATROL™ MED-GCS 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).

AQUATROL™ MED-GCS 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. Especially effective for adsorbing trace organic compounds such as vinyl chloride, MTBE, methylene chloride and trihalomethanes/disinfection by-products.

AQUATROL™ MED-GCS-1240 & MED-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.

Applications

- Water purification
- Wastewater treatment
- Industrial chemical purification

Product Specifications

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

MED-GCS SERIES SPECIFICATIONS	
Part Number	Description
MED-GCS-1240	Aquatrol™ Coconut Shell Activated Carbon, 12 x 40, 1 cu. ft. Bag
MED-GCS-830	Aquatrol™ Coconut Shell Activated Carbon, 8 x 30, 1 cu. ft. Bag

CATION RESIN

Ion Exchange Resin

AQUATROL™ MED-CAT100E/100FMR/110E CATION RESIN

provide a high purity, premium cation resin designed for the treatment of foods, beverages, potable waters, and water used in the processing of food. AQUATROL™ MED-CAT100E, MED-CAT100E-FMR and MED-CAT110E resin are 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.

ION EXCHANGE RESIN SPECIFICATIONS	
Part Number	Description
MED-CAT100E	Aquatrol™ Strong Acid Cation Resin, 1 cu. ft. Bag
MED-CAT100E-FMR	Aquatrol™ Strong Acid Cation Fine Mesh Resin, 1 Cu. Ft.
MED-CAT110E	Aquatrol™ Strong Acid Cation Resin 10%, 1 cu. ft. Bag

Product Specifications

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

International Equivalents

- Amberlite SR1L (American)
- Diaion SK-1 (Japan)
- Dowex HCR-S5 (American)
- Lewatit S100 (German)
- Purolite C100, C100E (England)



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Applications

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.

* For the complete list of our NSF Certified products, please visit the Hydronix Water Technology page on the official NSF website: www.nsf.org

Carbon GAC & Resin



* 1 BV (Bed Volume) = 1 m3 solution per m3 resin (1BV/h = 0.125 gpm/ft3)

MIXED BED RESIN

AQUATROL™ MB6040SG MIXED BED RESIN

is a semi-conductor grade ion exchange mixed bed resin which has been designed for numerous applications, including final polishing in the highest purity water treatment applications. The AQUATROL™ MB6040SG Mixed Bed Resin is a pre-mixed resin product composed of an equivalent mixture of high capacity, fully regenerated strong acid, and strong base gel type ion exchange resins.

MIXED BED RESIN SPECIFICATIONS	
Part Number	Description
MED-MB6040SG	Aquatrol™ High Purity Mixed Bed Resin, 1 Cu. Ft. Bag

Product Specifications

- Flow Rate of Regenerate Solution: 17.6 - 26.4 gpm (4 - 6 M/Hr)
- Max. operating temperature: 140 °F (60 °C)
- Feed water temperature: 60 to 77 °F (15 to 25 °C)
- Min. bed depth:
- Service flow rate:

Recommended Influent Water Quality

- Inlet Resistivity: > 17 MΩ.cm
- Inlet Silica: < 2 ppb
- Inlet Total Organic Carbon: < 15 ppb



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Manufactured by Hydronix Water Technology



ZX-55

ZEOLITE FILTRATION MEDIA



This Zeolite Filtration Media is tested and Certified by NSF International against NSF/ANSI Standard 61 for material requirements only.

COMPONENT



Aquatrol ZX-55 Zeolite Filtration Media

is a highly efficient media designed to address turbidity and suspended solids in water. ZX-55 Zeolite media has a filtration efficiency between the 3 -5 micron range, making it a very desirable option and viable alternative over sand and other multi-media filters.

Aquatrol ZX-55 Zeolite Filtration Media

offers superior performance, higher flow rates, longer run-times and less backwashing for less maintenance.

Aquatrol ZX-55 Zeolite Filtration Media

has been tested and certified by NSF International to NSF/ANSI Standard 61 and can be used in Commercial, Industrial, Municipal, Food & Beverage and other applications.



MEDIA COMPARISON		
MEDIA FILTRATION	MICRON EFFICIENCY	SERVICE FLOW RATES gmp/ft ² (m ³ h/m ²)
AQUATROL ZX-55 Zeolite	3 - 5	10 - 20 (20 - 30)
SAND	25 - 40	8 - 12 (20 - 30)
MULTIMEDIA	12 - 15	12 - 15 (30 - 37.5)

OPERATING PARAMETERS	
FLOW RATE	10 - 20 gpm/ft ² (25 - 45 m ³ h / m ²)
BACKWASH FLOW RATE	14 - 18 gpm/ft ² (34 - 44 m ³ h / m ²)
BED DEPTH	30 - 48 in (76-122 cm)
FREEBOARD	50%

CHARACTERISTICS	
COLOR	Off White
SURFACE AREA	35 m ² /g
UNIFORMITY COEFFICIENT	1.7
BULK DENSITY	21.4 kg/ft ³ (0.75 kg/L)
MOHS HARDNESS	3
MESH	16 x 30

FEATURES

- 3 – 5 micron retention size
- Higher flow rate
- Lower pressure drop
- Fewer backwash intervals
- NSF/ANSI 61 Tested and Certified
- Lighter weight media
- Use less media
- Superior water clarity

APPLICATIONS

- Commercial
- Municipal
- Industrial
- Food & Beverage
- Pharmaceutical
- Agriculture
- Manufacturing
- Car Wash



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