



## **WESTATES® ENHANCED COCONUT SHELL CARBON: AQUACARB® CX SERIES CARBON**

### **AQUACARB 1230CX**

#### **Background**

Historically, coconut shell based activated carbons have been typically limited to applications involving trace VOC removal from groundwater or where the background water was relatively high in purity. For applications such as surface water, where the water stream being treated would be relatively high in natural organic matter (NOM) or total organic carbon (TOC), bituminous coal based carbons have been predominantly used for decades. With their microporous pore structure, coconut shell carbons simply did not perform as well as coal based carbons in these applications...until now.

AquaCarb® 1230CX enhanced coconut shell carbons combine the benefits of both carbon types; an activated carbon with the high micropore structure of coconut shell, and the faster kinetics of bituminous coal. The resulting product provides excellent trace VOC removal capacity and adsorptive performance to remove taste, odor and other organic contaminants.

#### **Applications**

Applications where AquaCarb CX Series enhanced coconut shell carbons are a suitable, high performance alternative to coal based carbons include:

- Surface water treatment – taste and odor removal
- Surface water treatment – disinfection by product (DBP) or DBP precursor removal
- Bulk organic/TOC removal from water
- Groundwater treatment – organic contaminants

#### **Features and Benefits**

- ANSI/NSF Standard 61 classified for use in potable water applications
- Fully conforms to physical, performance and leachability requirements established by the current ANSI/AWWA B604 (which includes the Food Chemical Codex requirements)
- Retains inherent micropore structure from base coconut carbon, providing excellent VOC adsorption capacity
- Contains superior mesopore structure, providing improved adsorption kinetics and adsorption capacity for larger molecular weight compounds
- Modified pore structure leads to longer bed life between carbon exchanges, and lower life cycle costs
- A detailed quality assurance program guarantees consistent quality from lot to lot and shipment to shipment

## TYPICAL PROPERTIES

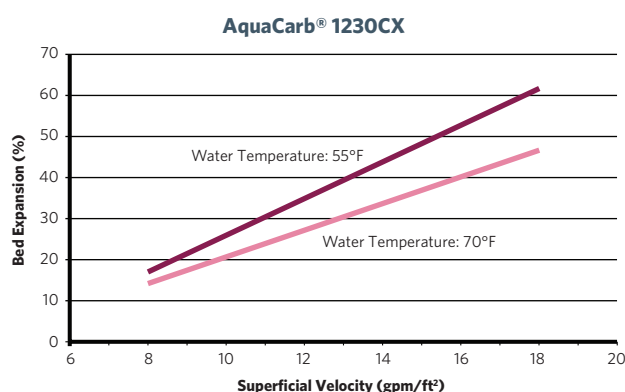
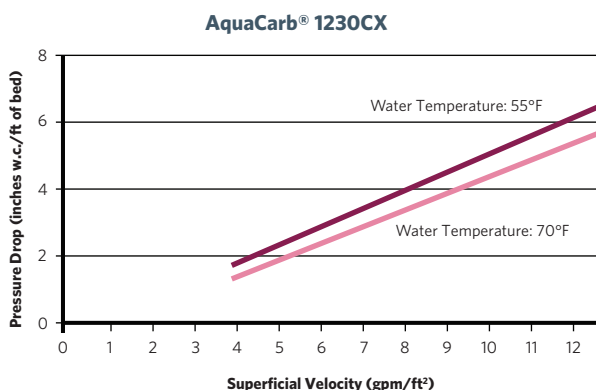
Parameter	AquaCarb 1230CX
Mesh Size	12 x 30
Effective Size, mm	0.6 – 0.85
Uniformity Coefficient	2.0
Iodine, mg/g	1100
Hardness	95
Abrasion	85
AD, g/cc	0.43 – 0.46
Water Soluble Ash, wt%	2
Contact pH	9 – 10

## Reactivation Options

In addition to our AquaCarb® CX virgin carbon, Evoqua also offers options for carbon reactivation service and AquaCarb CXS enhanced reactivated coconut carbon. Carbon reactivation is an environmentally-friendly process that minimizes waste by recycling and reusing spent carbon. Reactivation restores the surface area and pore volume of the spent carbon to a point close to that of a virgin carbon. In fact, the process of carbon reactivation is very similar to the process of creating virgin activated carbon. Reactivated carbons provide a cost-effective alternative to virgin carbon and continue to provide excellent performance in many treatment applications.

Evoqua has over 25 years experience in carbon reactivation. To learn if AquaCarb CX virgin-grade or CXS reactivated enhanced coconut shell carbon is right for your application, contact your local Water Technologies sales representative or call 866.613.5620.

Wet activated carbon readily adsorbs atmospheric oxygen. Dangerously low oxygen levels may exist in closed vessels or poorly ventilated storage areas. Workers should follow all applicable state and federal safety guidelines for entering oxygen depleted areas.



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