



Drinking Water Treatment Activated Carbon

Premium Coconut Shell-Based Activated Carbon
for Potable Water, POE, POU and Process
Water Applications

AquaMAX™ Water Series

Overview

Carbonmax Drinking Water Treatment Carbon (AquaMax–Water Series) is a premium coconut shell–based granular and powdered activated carbon, engineered for high-efficiency potable water purification.

Manufactured using controlled steam activation in rotary kilns, AquaMax is designed to deliver rapid dechlorination kinetics, superior taste and odor removal, low leachability, and long operational life in municipal, POE, and POU systems.



Why Coconut Shell Carbon for Drinking Water

- Naturally low ash and soluble impurities
- High micro-porosity for chlorine, chloramine, and VOC adsorption
- Excellent hardness and resistance to attrition
- Renewable and sustainable raw material

Key Performance Advantages

- Rapid chlorine & chloramine removal
- Low pressure drop in fixed-bed filters
- High hardness minimizes fines generation
- Stable pH and low extractables
- Consistent batch-to-batch performance

Typical Applications

- Municipal drinking water treatment plants
- Point-of-Entry (POE) systems
- Point-of-Use (POU) domestic filters
- Bottled water plants
- Food & beverage process water

Product Grades & Typical Specifications

Parameter	Specification	Test Method
Iodine Number	900 – 1200 mg/g	ASTM D4607
CTC Activity	≥ 55 %	ASTM D3467
BET Surface Area	900–1200 m²/g	BET-N ₂
Hardness Number	≥ 98 %	ASTM D3802
Apparent Density	0.48–0.55 g/cc	ASTM D2854
Bulk Density	480–550 kg/m³	
Moisture	≤5 %	ASTM D2867
Ash Content	≤3–5 %	ASTM D2866
Extractable pH	6–11	ASTM D3838
Dechlorination Half Value	< 4cm	DIN19603

Available Particle Sizes

6×12, 8×16, 8×30, 12×30, 12×40, 14×45, 20×50, 30×100, 50×200, M200, M325

Certifications & Regulatory Compliance

- NSF-61 (Drinking Water System Components)*
- NSF-42 (Taste & Odor Reduction)*
- Prop-65*
- WQA compliant materials
- *Grade specific

Manufacturing & Quality Control

- Selection of high-density coconut shell charcoal
- Controlled steam activation in rotary kilns for potable-water pore development
- Optional acid washing / pH stabilisation / catalytic treatment based on grade requirement
- Multi-stage screening, de-dusting and particle-size control
- Batch-wise testing for iodine, particle size, moisture, ash, density, hardness and pH
- Optional testing for dechlorination half value, water extractables, trace metals, rinse-down and customer-specific parameters

Handling, Packing & Logistics

Standard Packing: 25 kg clean PP / HDPE woven bags with PE inner liner; 500 kg FIBC / jumbo bags with liner; palletised export packing available on request; food-grade / potable-water suitable bags and OEM/private-label packing available on request. Store in a clean, dry area away from moisture, chemicals, odours and volatile contaminants.

Disclaimer

Specifications shown are typical values and may be customised based on application and contract requirements. Actual performance depends on influent water quality, chlorine/chloramine level, TOC, pH, temperature, flow rate, empty-bed contact time, bed depth, pre-treatment and filter design. Users should conduct application-specific trials and breakthrough studies to confirm suitability.



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