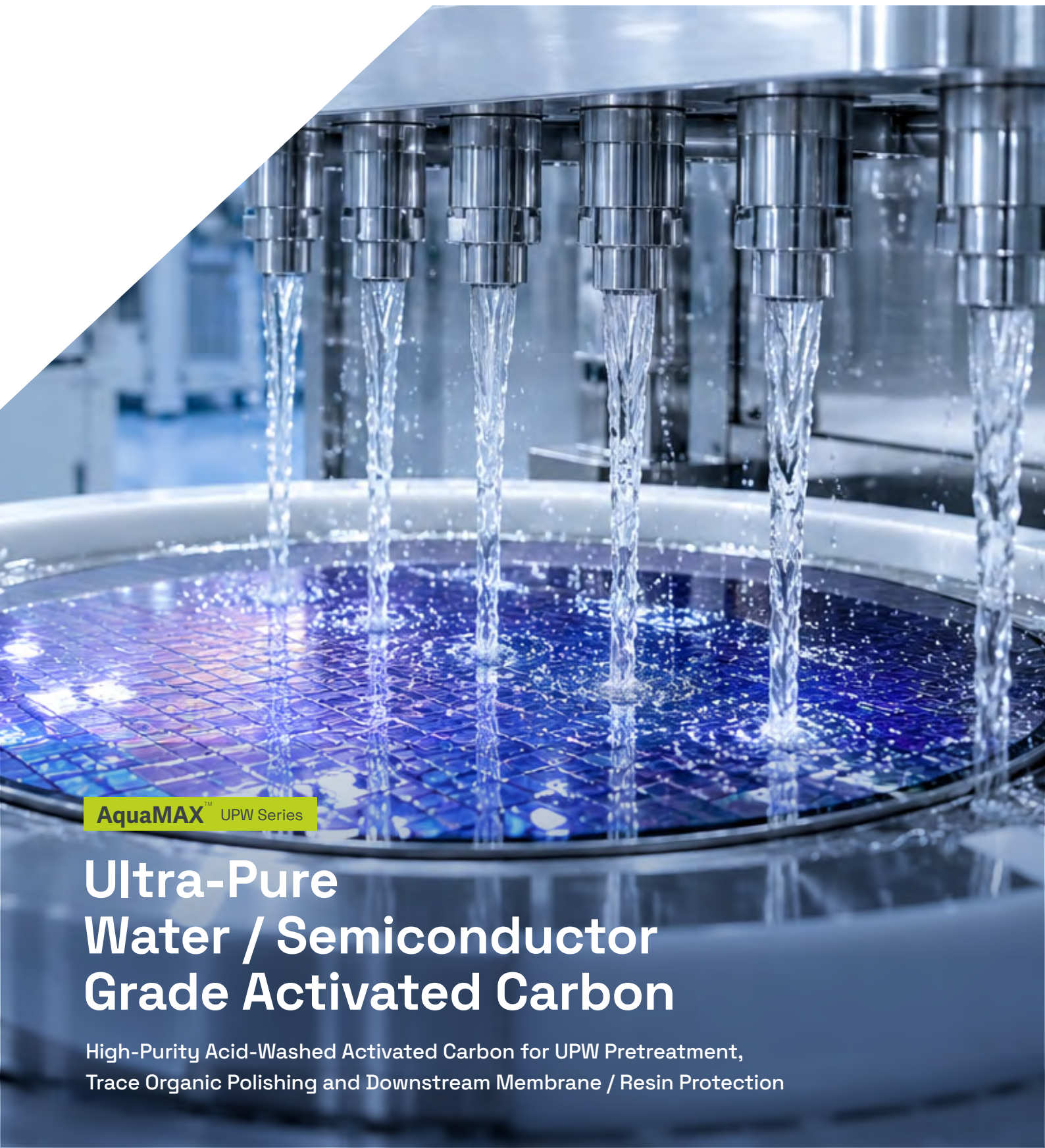




AquaMAX™ UPW Series

Ultra-Pure Water / Semiconductor Grade Activated Carbon

High-Purity Acid-Washed Activated Carbon for UPW Pretreatment,
Trace Organic Polishing and Downstream Membrane / Resin Protection

Product Overview

AquaMAX-UPW Series is a high-purity, acid-washed coconut shell granular activated carbon range developed for ultra-pure water pretreatment and polishing systems used in semiconductor, electronics, photovoltaic, pharmaceutical and high-purity process water applications.



Why Coconut Shell Carbon for UPW

Naturally low ash
Superior purity compared to coal-based carbons
High resistance to breakdown

Key Performance Advantages

- Ultra-low soluble ions and metals
- Prevents downstream membrane and resin fouling
- Fast adsorption of trace organics and gases
- Extended service life

Typical Applications

Semiconductor fab UPW pretreatment and trace organic polishing. Electronics and PCB manufacturing process water. Photovoltaic and advanced manufacturing high-purity water systems. RO / EDI / mixed-bed resin protection from chlorine, ozone and trace organics. High-purity pharmaceutical and laboratory process water pretreatment.

Packaging, Handling & Safety

Standard Packing: 25 kg PP / HDPE woven bags with double PE inner liner for standard UPW GAC grades; heat-sealed PE liner or PE valve sacks for low-extractables grades; palletised, stretch-wrapped and moisture-protected export packing available on request; 500 kg FIBC / jumbo bags with liner only where customer handling method and contamination-control requirements allow bulk packing.



Product Grades & Typical Specifications

Parameter	Specification
Iodine Number	900–1200 mg/g
BET Surface Area	900–1200 m ² /g
Particle Size	8×30, 12×40
Apparent Density	~0.47 g/cc
Hardness Number	≥98 %
Moisture	≤5 %
Ash Content	<=0.8%; <=0.5% premium

Manufacturing & Quality Control

Proprietary acid washing
Multi-stage rinsing and neutralization
Cleanroom-compatible packing protocols

Test Methods

Parameter	Specification
Iodine Number	ASTM D4607
BET Surface Area	ASTM D6556 / BET-N2
Particle Size	ASTM D2862
Apparent Density	ASTM D2854
Hardness Number	ASTM D3802
Moisture Content	ASTM D2867
Total Ash	ASTM D2866

Disclaimer: Specifications shown are typical values and may be customised based on feed-water quality, oxidant concentration, TOC load, silica/metals limits, flow rate, EBCT, rinse protocol, filter design and downstream membrane / resin requirements. Actual performance depends on the full UPW treatment train and operating conditions. Users should conduct pilot trials, rinse validation and batch qualification before use in semiconductor or other critical high-purity applications.

Carbonmax Advantech Private Limited

SF No: 21A1, Pollachi Road, Palladam - 641664
Tirupur District, Tamil Nadu, India.

+91 9943499855

info@carbonmaxtech.com

www.carbonmaxtech.com