

# Purification. Decolorization. Solutions.

Providing activated  
carbon for over 85 years.



# Global supplier. Quality products.

## Relax. We provide high quality products at your service.

Industries worldwide depend on the quality of MWV's Nuchar®, a chemically activated, wood-based carbon. Nuchar carbon products are key components in: food product processing; wine, juice and sweetener decolorization; point-of-use water filters; and chemical and pharmaceutical processing.

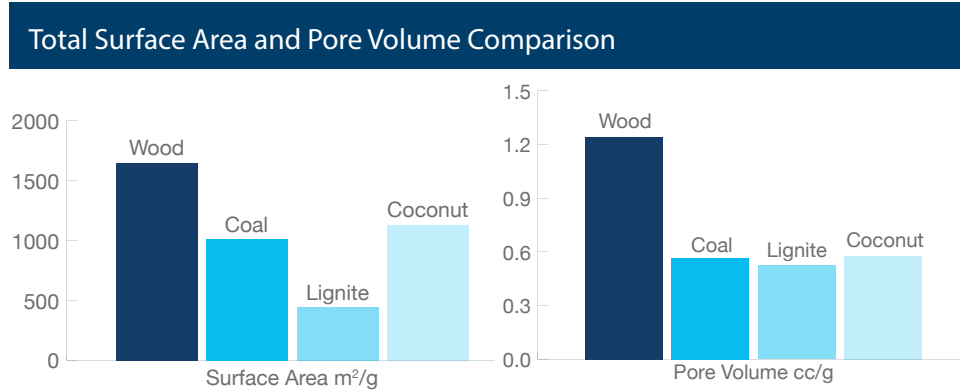
Nuchar carbon is produced from sawdust, a natural renewable resource. Because of its porous structure, purity, and renewable nature, wood is a superior carbon source. The chemical activation of wood makes specific manipulation of its pore structure possible. As the leading global producer of wood-based activated carbon, we are fully committed to the development of this technology by optimizing carbon performance and providing cost-effective solutions. Our commitment to manufacture high quality carbon is represented by our ISO 9001, ISO/TS 16949 and Responsible Care® Certifications—internationally recognized measures of consistent superior performance and responsibility to health, safety, and the environment.



# More surface area. More pore volume.

Your product with higher purity.

Nuchar, chemically activated, wood-based carbon delivers higher surface area and pore volume per gram than carbon from other raw materials. The graph to the right shows wood-based carbon having two times the pore volume than carbon created from coal, lignite and coconut. This higher pore volume and surface area means your product will have higher purity in a shorter amount of time while using less carbon.



## At a glance

Our variety of wood-based carbon grades are well suited to many different purification applications. The table to the right is a guide to just a few applications where Nuchar activated carbon properties and consistent quality have been proven.

MWV Carbon Guide		Nuchar® SA-20	Nuchar® SN-20	Nuchar® HD	Nuchar® RGC Powder	AquaNuchar®	Nuchar® WW-B 30 Granular	AquaGuard 325	AquaGuard Powder
Application	Corn Syrup, Sweeteners	•	•	•					
	Hydrolyzed Vegetable Protein	•	•	•					
	Acids (Citric, Phosphoric)	•		•					
	Monosodium Glutamate	•		•			•		
	Fermentation Broths, Enzymes	•	•				•		
	Wine	•		•					
	Juice	•		•					
	Maltalternative Base, Beer	•		•					
	Pharmaceuticals	•	•		•				
	Alum	•	•						
	Trona / Soda Ash	•							
	Municipal Drinking Water					•	•		
	Point-Of-Use Water							•	•
	Wastewater	•							

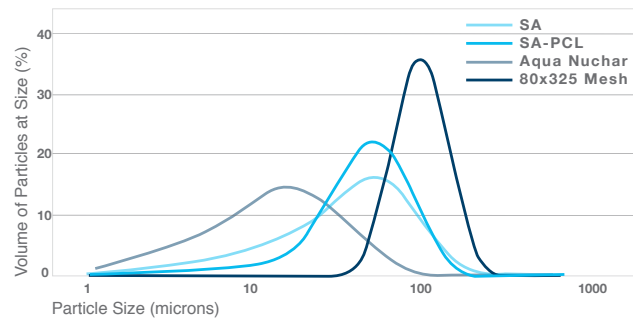
# Activated Carbon

## Powdered Activated Carbon



- Ideal for the decolorization of liquid sweeteners and purification of food ingredients
- Used in pharmaceutical and chemical purification as both an adsorbent and a catalyst support
- Tailored particle size allows you to achieve the optimal balance between filtration requirements and adsorption kinetics

## Particle Size Distribution



## Granular Activated Carbon



- Ideal for high-efficiency purification of liquids, gases and vapors including gasoline vapor recovery systems and air purification applications
- Potable water treatment uses wood-based granular carbon in gravity filters
- High hardness and low water soluble versions are available
- Catalytic carbons have superior capacity for removing chloramine and chlorine in point of use water filters

The ASTM D5159-91 test method for dust attrition results show Nuchar is initially much cleaner and generates fewer fines.



Nuchar® RGC



Coal - Based

# We are your dependable supplier.

Thinking of you every step of the way.

By choosing to partner with us you are choosing the **highest quality carbon on the market**. Our ISO 9001 and ISO/TS 16949 quality management systems ensure our products meet the industry's highest standards. Our packaging is clean, simple, and specifically designed to prevent carbon leaks. Our high quality products will arrive in our innovative packaging when you need them. Certain grades of MWV activated carbon are available in bulk pressure differential trailers for large scale use. Multiwall bags and bulk bags are shipped globally.

## Our technical group is here to help.

Our capabilities include performance testing per industry standards and meeting your specific methods for properties such as: adsorption capacity; porosity; strength; composition; particle size; pilot testing for scale up; field testing; and carbon handling and safety.



## Multiple Plants. Reliable Supply.



## Meeting your future needs.

The work of our engineers and technical support staff is closely linked with the work of our carbon research group based in Charleston, S.C. The ongoing success of this combined effort is demonstrated by the consistent improvement of the performance of our products. Studies of activation chemistry, carbon porosity, shaped carbon and the effects of particle geometry have led to new directions in enhanced carbon products.



# The shipping options **you want.**

Certain grades of MWV activated carbon are available in bulk pressure differential trailers for large scale use. Multiwall bags and bulk bags are shipped globally.

Tokyo, Japan  
81 3 357 0051

Mexico City, Mexico  
521 55 12 95 33 74

Capetown, South Africa  
27 21 410 8771

Seoul, South Korea  
82 2 732 9801

Taipei, Taiwan  
82 2 732 9801

Bangkok, Thailand  
66 819 242 472

Brussels, Belgium  
32 2 7759 746

Valinhos, Brazil  
55 19 3707 4183

Shanghai, China  
86 21 61130516

Hong Kong  
81 3 3578 0051

Mumbai, India  
91 22 287 4666

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[chemicals@mwv.com](mailto:chemicals@mwv.com)

