



# TECHNICAL DATASHEET

## AquaSorb® CP1

### Activated carbon for potable and industrial water treatment

AquaSorb® CP1 is a high activity powdered activated carbon, specifically manufactured for the treatment of water for human consumption, in both municipal and industrial applications. This grade of activated carbon is highly microporous and is particularly suited to the removal of low molecular weight organics present in low concentrations. Manufactured from a sustainable raw material, AquaSorb® CP1 contributes to a reduction in atmospheric carbon dioxide (CO<sub>2</sub>). The material is compliant with international standards for activated carbon products used in this application.



#### SPECIFICATION\*

Iodine adsorption	min. 1000 mg/g
Total ash content	max. 5%
Moisture content	max. 5%

#### TYPICAL PROPERTIES\*

Surface area (BET N <sub>2</sub> )	1050 m <sup>2</sup> /g
Water solubles	max. 3%
Apparent density, aspirated	330 kg/m <sup>3</sup>
Apparent density, tapped	505 kg/m <sup>3</sup>

\* SPECIFICATIONS AND TYPICAL PROPERTIES ARE PRODUCED USING JACOBI CARBONS' TEST METHODS. THEY ARE LISTED FOR INFORMATIONAL PURPOSES ONLY AND NOT TO BE USED AS PURCHASE SPECIFICATIONS. SALES SPECIFICATIONS CAN BE OBTAINED FROM YOUR JACOBI CARBONS TECHNICAL SALES REPRESENTATIVE AND SHOULD BE REVIEWED BEFORE PLACING AN ORDER.

#### Features and Benefits

- Rapid adsorption kinetics
- High activity adsorbent
- Microporous product
- High trace contaminant removal efficiency
- Carefully controlled particle size
- Compliant with international standards (AWWA/EN12903)

#### Available Particle Sizes

- PAC-C d<sub>50</sub> >35µm
- PAC-S d<sub>50</sub> 15-35µm
- PAC-F d<sub>50</sub> 8-15µm

#### Supply options

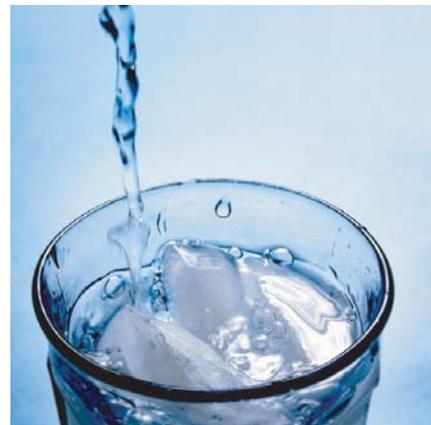
- Standard PAC
- Pre-wetted carbon 'cake'
- Liquid suspension (PICAHYDROSOL® S23)
- Other supply forms considered on request

#### Standard Packaging

- 25 kg sack (55 lb)
- 500 kg bulk bag (1100 lb)
- Bulk tanker
- Other packing considered on request



Polyethylene liner-free FIBCs (super sacks), two bags per pallet



## SUSTAINABILITY

A variety of raw materials can be used for the manufacture of activated carbons. Only coconut shell is truly sustainable, using a renewable source of material that complements other uses for parts of the nut; from the flesh used for foodstuffs, to the coir used to produce matting.

The use of coconut shell in the production of activated carbon represents a net reduction of atmospheric Carbon Dioxide (CO<sub>2</sub>), and almost a four-fold lower emission of greenhouse gases than the use of coal as a raw material source.

## PRODUCTION CAPABILITY

Jacobi Carbons operates multiple facilities for the manufacture of activated carbons. These production plants are strategically located close to market and raw material sources. With an annual output in excess of 70 000 metric tonnes, Jacobi Carbons is able to supply product to all locations around the globe. All production units are certified according to internationally recognised standards (ISO9000 & ISO14001). Quality control is consistent throughout the group of companies and goods are always shipped in compliance with customer specifications.

### BURNING AND EXPLOSION CHARACTERISTICS

Auto-ignition temperature	260 °C	
Smolder temperature	No smoldering up to 400 °C	
Dust explosion class	St1 (weak explosion potential)	
TGA/TDA under air	288°C (medium reactivity)	
Minimum ignition energy	>1200mJ	
Minimum ignition temperature	>680°C	
Lower explosion limit	>60g/m <sup>3</sup>	
Explosion severity (20l sphere)	P max.	6 bar
	MRE (ΔP)	160 bar/s
	Kmax or Kst	43 bar/m/s

DATA PROVIDED IS INDICATIVE ONLY AND BASED ON THE ANALYSIS OF MATERIAL UNDER SPECIFIC CONDITIONS. THESE MAY NOT BE REPRESENTATIVE OF PREVAILING CIRCUMSTANCES DURING THE HANDLING AND USE OF THIS ACTIVATED CARBON GRADE.

## CARBON APPLICATION KNOWLEDGE

The supply of activated carbon products is supported by an industry-leading technical support service. Our in-house expertise extends over many years of practical experience in the design and utilisation of activated carbon in a variety of applications. Jacobi Carbons can assist in the design, specification and method of use of our products to achieve the optimum treatment outcome required. Our laboratory facilities support our product portfolio with a extensive library of technical data.

For more information or to contact Jacobi visit: [www.jacobi.net](http://www.jacobi.net)



**NOTICE** Due to the progressive nature of the Jacobi Carbons Group and the continually improving design and performance of our products, we reserve the right to change product specifications without prior notification. The information contained in this datasheet is intended to assist a customer in the evaluation and selection of products supplied by Jacobi Carbons. The customer is responsible for determining whether products and the information contained in this document are appropriate for customer's use. Jacobi Carbons assumes no obligation or liability for the usage of the information in this datasheet, no guarantees or warranties, expressed or implied, are provided. Jacobi Carbons disclaims responsibility and the user must accept full responsibility for performance of systems based on this data.

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