



TECHNICAL DATASHEET

AquaSorb™ BP2

Activated carbon for potable and industrial water treatment

AquaSorb™ BP2 is a medium 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 predominately mesoporous in nature and as such is suited to the removal of medium range organic pollutants, such as natural organic matter and pesticides. The material is compliant with international standards for activated carbon products used in this application.



SPECIFICATION*

Iodine number	min. 850 mg/g
Ash content	max. 18 %
Moisture content	max. 5 %

TYPICAL PROPERTIES*

Surface area (BET N ₂)	900 m ² /g
Ash content	15 %
Water solubles	max. 3 %
Apparent density, aspirated	390 kg/m ³
Apparent density, tapped	600 kg/m ³

* 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.

† WHEN SOLD IN PRE-WETTED CARBON 'CAKE' THE PRODUCT DESIGNATION IS AQUASORB™ BP2WL. AQUASORB™ BP2WL IS SUITABLE FOR USE AS A VETERINARY ADDITIVE IN RUMINANT FEED FOR THE CONTROL OF ACCUMULATION OF PESTICIDE IN SILAGE, OR AS A REMEDIATION TO HIGH PRODUCTIVITY LAND TO CONTROL THE PERSISTANCE OF HERBICIDE IN SOILS.

Features and Benefits

- Rapid adsorption kinetics
- Medium activity adsorbent
- Mesoporous product
- Good trace contaminant removal efficiency
- Carefully controlled particle size
- Compliant with international standards (AWWA B600)

Available Particle Sizes

- PAC-C d₅₀ >35µm
- PAC-S d₅₀ 15-35µm
- PAC-F d₅₀ 8-15µm

Supply options

- Standard PAC
- Pre-wetted carbon 'cake'†
- 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



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



PARTICLE SIZE DISTRIBUTIONS

US mesh size	PAC-C	PAC-S	PAC-F
>80	<0.5%	0%	0%
<100	>90.0%	>95%	>99.5%
<200	55-70%	>85%	>95%
<325	<45%	65-85%	>90%
d ₅₀	>35µm	15-35µm	8-15µm

THESE VALUES ARE TYPICAL PROPERTIES ONLY. OTHER PARTICLE SIZE DISTRIBUTIONS ARE AVAILABLE ON REQUEST, INCLUDING MICRONISED AND HIGH FILTERABILITY PRODUCTS TO SUIT ALL FILTRATION NEEDS.

BURNING AND EXPLOSION CHARACTERISTICS

Auto-ignition temperature	Grewer oven	250 °C
Smolder temperature	No smoldering up to 400 °C	
Dust explosion class	St1 (weak explosion potential)	
Minimum ignition energy	>1000mJ	
Minimum ignition temperature	>550°C	
Lower explosion limit	20g/m ³	
Explosion severity (20l sphere)	P max.	7.4 bar
	MRE (ΔP)	362 bar/s
	Kmax or Kst	98 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. INFORMATION BASED ON DRY MATERIAL ONLY.

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.

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.

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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JACOBI-TDS-AQUASORB-BP2-A4-ENGE0515

LENNTECH

info@lennotech.com Tel. +31-152-610-900
www.lennotech.com Fax. +31-152-616-289



Jacobi
THE CARBON COMPANY