



TECHNICAL DATASHEET

EcoSorb™ BXB

High performance activated carbon for vapour phase adsorption

EcoSorb™ BXB is an activated carbon that is suitable for the removal of a wide range of organic pollutants in the vapour phase. The predominance of micropores ensures effective removal of low molecular weight contaminants. The extruded form of this product offers exceptional durability, especially in annular and deep bed adsorption units where thermal stress may be high. EcoSorb™ BXB is suitable for use in inert gas purification, for example carbon dioxide and nitrogen, and recovery of low boiling point solvents.



SPECIFICATION*

CTC adsorption	min. 60 %
Moisture content, as packed	max. 5 %
Ash content	max. 12 %
Hardness	min. 98 %

TYPICAL PROPERTIES*

Surface area	1050 m ² /g
Butane adsorption	26 %
Apparent density, tapped	460 – 520 kg/m ³
Filling density, loose packed	390 – 440 kg/m ³
Pellet diameter tolerance	±10 % dia.
Specific heat	950 J/Kg/°K ⁻¹

* 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

- High activity product
- Extruded form
- Predominately microporous
- Exceptional product hardness
- Low dust forming properties
- Good resistance to attrition
- Wide range of pellet diameters
- High organic removal capacity
- Versatile adsorbent
- Consistent pressure loss characteristics

Available Pellet Sizes

- 5mm diameter
- 4mm diameter
- 3mm diameter
- 2mm diameter
- 1.5mm diameter

Standard Packaging

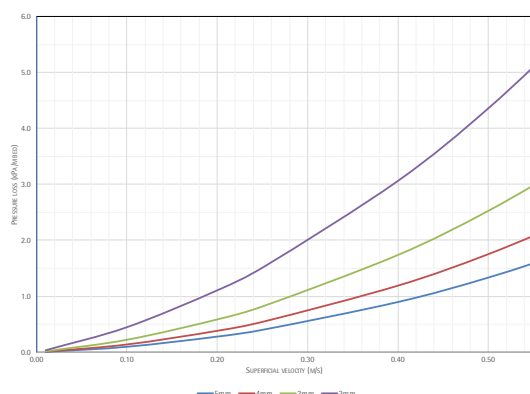
- 25 kg PE valve sack (55 lb)
- 500 kg bulk bag (1100 lb)
- Other packing considered on request



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



PRESSURE LOSS IN AIR



FOR EASY CONVERSION TO IMPERIAL UNITS, PLEASE VISIT WWW.JACOBI.NET

Pressure loss data is based on empirical assessment in ambient air (20°C/>80%RH/950-1050mbar) and does not constitute a warranty or guarantee of actual performance. A tolerance in particle size is detailed in this technical data sheet and this should be considered in calculation of potential pressure loss in a treatment system

ADSORPTION CAPACITY

Selected compounds in air

Compound	Type	Concentration	Capacity
n-Hexane	Aliphatic	10ppmv	14.4
		1000ppmv	23.7
Trichloroethene	Chlorinated	10ppmv	21.0
		1000ppmv	46.8
n-Propanol	Alcohol	10ppmv	21.0
		1000ppmv	41.3
Toluene	Aromatic	10ppmv	19.0
		1000ppmv	34.8

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*The adsorption capacity of activated carbon varies according to numerous factors, such as temperature, pressure, relative humidity, competitive adsorption and the presence of particulate matter. The adsorption capacities stated above are based on predictive isotherm assessment from study of the porosity and adsorption potential of the activated carbon type, at STP. Adsorption capacity is stated as grams of contaminant adsorbed per 100g of activated carbon. They do not represent any guarantee of performance or warranty of service. The adsorption capacity values stated are to saturation level of the activated carbon only.

For more information or to contact Jacobi visit: www.jacobi.net

PRODUCTION CAPABILITY

The Jacobi Carbons Group of companies owns and operates manufacturing facilities in nine countries around the world. We produce in excess of 70,000 metric tonnes of high quality activated carbons based on coconut shell, coal and wood, by both chemical and steam (physical) activation methods.

Our facilities are state-of-the-art, and are the most modern production units of their type. Intensive investment in these has ensured that products are manufactured to the most exacting quality standards demanded by our customers.

TECHNICAL SUPPORT AND KNOW-HOW

One of the distinguishing features of Jacobi Carbons is the extremely high level of technical competence within the company. Stand-alone product and technical service departments are staffed by industry-leading specialists in the field of activated carbon application and research. Dedicated laboratory facilities in Europe and North America work with our clients to ensure the optimum result is achieved from the use of our activated carbon products.



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 use 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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JACOBHDS-ECOSORB-BXB-EUA4-ENG-B0316

Jacobi Corporate Headquarters
Slöjdaregatan 1
SE-39353 Kalmar | Sweden
Tel: +46 480 417550 | Fax: +46 480 417559
info@jacobi.net | www.jacobi.net

