



# TECHNICAL DATASHEET

## AquaSorb™ 2000

### Activated carbon for drinking water treatment

AquaSorb™ 2000 is a high activity granular activated carbon, specifically manufactured for the treatment of water for human consumption, in both municipal and industrial applications. The manufacturing process develops a porous structure that is effective in the removal of dissolved organic matter, pesticides and chemicals that are found in raw water sources. AquaSorb™ 2000 is suitable for use in the treatment of ground, surface and network supplies. The material is compliant with international standards for carbon media used in this application.



#### SPECIFICATION\*

|                             |                            |
|-----------------------------|----------------------------|
| Iodine adsorption           | min. 950 mg/g              |
| Moisture content, as packed | max. 5%                    |
| Apparent density            | min. 440 kg/m <sup>3</sup> |
| Total ash content           | max. 15%                   |
| Wettability                 | min. 99%                   |
| Ball pan hardness           | 96%                        |

#### TYPICAL PROPERTIES\*

|                                |                       |
|--------------------------------|-----------------------|
| Iodine adsorption              | 1000 mg/g             |
| Methylene blue adsorption      | 180 mg/g              |
| Surface area (BET)             | 950 m <sup>2</sup> /g |
| Apparent density               | 520 kg/m <sup>3</sup> |
| Backwashed and drained density | 450 kg/m <sup>3</sup> |

| PARTICLE SIZE (mesh)    | 20x40  | 12x40  | 10x20  | 8x30   | 8x18   |
|-------------------------|--------|--------|--------|--------|--------|
| Oversize                | <5%    | <5%    | <5%    | <5%    | <5%    |
| Undersize               | <4%    | <4%    | <4%    | <4%    | <4%    |
| Effective size          | 0.4 mm | 0.6 mm | 1.0 mm | 1.0 mm | 1.2mm  |
| Mean particle diameter  | 0.6 mm | 1.0 mm | 1.4 mm | 1.4 mm | 1.8 mm |
| Uniformity co-efficient | <1.5   | <1.7   | <1.5   | <1.6   | <1.5   |

The information supplied above is based on analysis of production trend over the previous six-months and is subject to change without notice should future trends be adjusted.

#### Features and Benefits

- High activity product
- Versatile adsorbent
- High mechanical strength
- Good adsorption capacity
- Potable water grade

#### Available Particle Sizes

- 8x18 mesh (2.36 - 1.18 mm)
- 8x30 mesh (2.36 - 0.60 mm)
- 10x20 mesh (2.00 - 0.85 mm)
- 12x40 mesh (1.70 - 0.43 mm)
- 20x40 mesh (0.85 - 0.425 mm)

#### Approvals and Certifications

- EN12915
- NSF 61 standard
- AWWA B604
- Halal certified
- Kosher certified
- Food Chemicals Codex

#### Standard Packaging

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



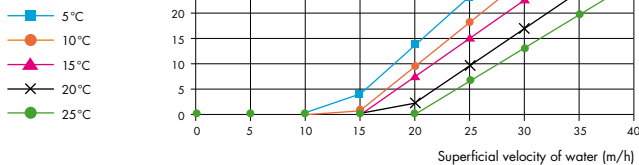
Polypropylene liner-free FIBCs (super sacks), two bags per pallet

\* SPECIFICATIONS AND TYPICAL PROPERTIES ARE PRODUCED USING JACOBI CARBONS' TEST METHODS. THEY ARE LISTED FOR INFORMATION 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.

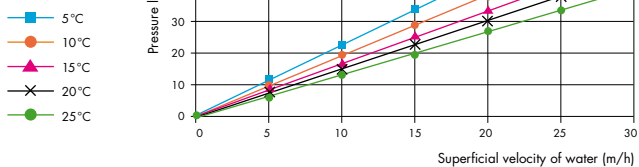


## AquaSorb™ 2000 8x30 mesh

### BED EXPANSION DURING BACKWASH

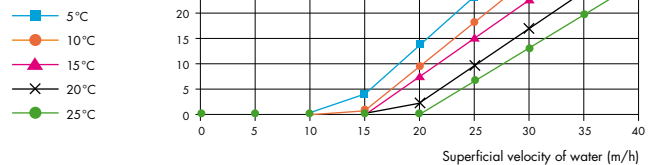


### DOWNFLOW PRESSURE LOSS

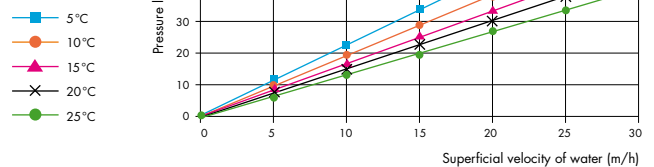


## AquaSorb™ 2000 10x20 mesh

### BED EXPANSION DURING BACKWASH

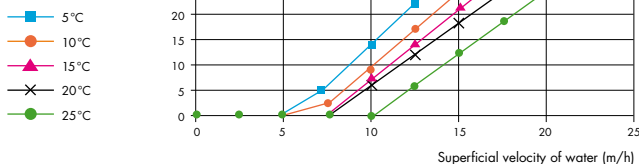


### DOWNFLOW PRESSURE LOSS

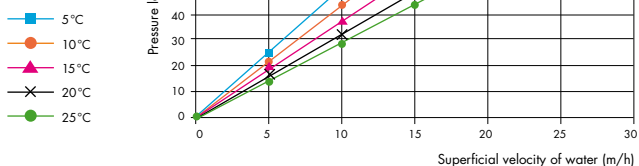


## AquaSorb™ 2000 12x40 mesh

### BED EXPANSION DURING BACKWASH



### DOWNFLOW PRESSURE LOSS



Bed expansion and pressure loss curves are provided for the most commonly used particle sizes. Charts are available for all particle sizes on request.

## 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 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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