



# TECHNICAL DATASHEET

## AquaSorb® CS

### Granular coconut shell based activated carbon

AquaSorb® CS is a medium activity granular activated carbon manufactured from a sustainable raw material source. Its enhanced microporosity makes it particularly well suited for the removal of low molecular weight organic compounds and their chlorinated by-products such as chloroform and other trihalomethanes (THM's). It is also ideally suited for the removal of oxidizing agents such as chlorine and ozone from process water. An important feature of this material is its superior mechanical hardness and the extensive dedusting during its manufacture that ensures an exceptionally clean activated carbon product.



#### SPECIFICATION\*

|                               |                            |
|-------------------------------|----------------------------|
| Iodine number                 | min. 1000 mg/g             |
| Moisture content, (as packed) | max. 5%                    |
| CTC adsorption                | min. 55%                   |
| Total ash content             | max. 4%                    |
| Hardness                      | min. 98%                   |
| Apparent density              | min. 460 kg/m <sup>3</sup> |

#### TYPICAL PROPERTIES\*

|   |                        |
|---|------------------------|
| Surface area                                  | 1050 m <sup>2</sup> /g |
| Dechlorination half length value (12x40 mesh) | 1.8 cm                 |
| Apparent density                              | 520 kg/m <sup>3</sup>  |
| Backwashed and drained density                | 440 kg/m <sup>3</sup>  |

| PARTICLE SIZE (mesh)    | 20x50  | 12x40  | 10x20  | 8x30   | 8x16   |
|-------------------------|--------|--------|--------|--------|--------|
| Oversize                | <5%    | <5%    | <5%    | <5%    | <5%    |
| Undersize               | <4%    | <4%    | <4%    | <4%    | <4%    |
| Effective size          | 0.4 mm | 0.6 mm | 0.8 mm | 1.0 mm | 1.2 mm |
| Mean particle diameter  | 0.5 mm | 1.0 mm | 1.4 mm | 1.4 mm | 1.9 mm |
| Uniformity co-efficient | 1.6    | 1.7    | 1.7    | 1.6    | 1.4    |

#### Features and Benefits

- Highly microporous structure
- Maximum hardness
- Excellent adsorption capacity
- High volume activity
- Rapid dechlorination
- Effective removal of ozone
- Low filtered water turbidity

#### Typical Applications

- Municipal drinking water treatment
- Residential water treatment systems
- Beverage production
- Protection of ion exchange resins from chlorine and organic fouling

#### Available Particle Sizes

- 20x50 mesh (0.85 - 0.30mm)
- 12x40 mesh (1.70 - 0.425mm)
- 10x20 mesh (2.00 - 0.85mm)
- 8x30 mesh (2.36 - 0.60mm)
- 8x16 mesh (2.36 - 1.18 mm)
- other granulations available upon request

#### Certifications and Approvals

- NSF / ANSI Standard 61
- AWWA B604-96
- EN12915
- Halal certified
- Kosher certified

#### Standard Packaging

- 25 kg bag (55 lb)
- 500 kg bulk bag (1100 lb)



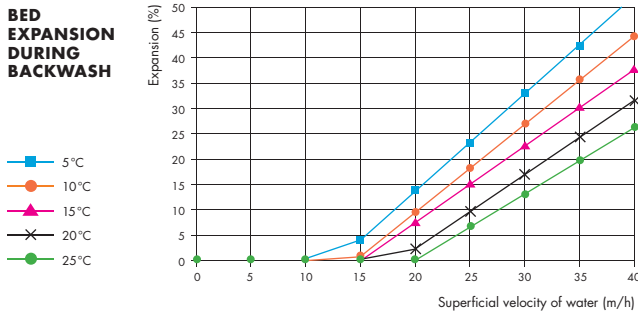
\* SPECIFICATIONS AND TYPICAL PROPERTIES ARE PRODUCED USING JACOBI CARBONS' TEST METHODS. THEY ARE LISTED FOR INFORMATION PURPOSES ONLY AND NOT TO BE USED AS PURCHASE SPECIFICATIONS. SALES SPECIFICATIONS CAN BE OBTAINED FROM YOUR JACOBI CARBONS TECHNICAL SALES REPRESENTATIVE AND SHOULD BE REVIEWED BEFORE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

Visit: [www.jacobi.net](http://www.jacobi.net)

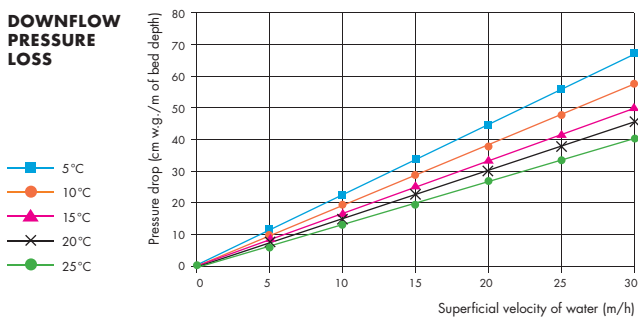


## AquaSorb CS 8x30 mesh

### BED EXPANSION DURING BACKWASH

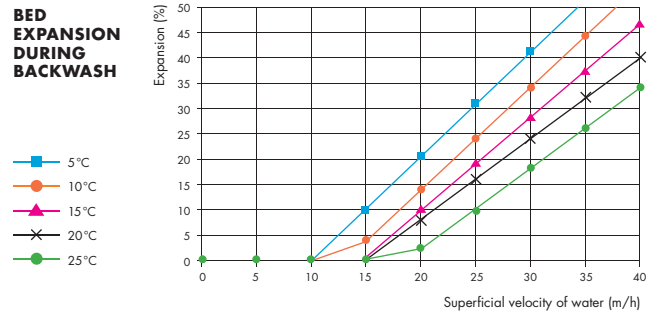


### DOWNFLOW PRESSURE LOSS

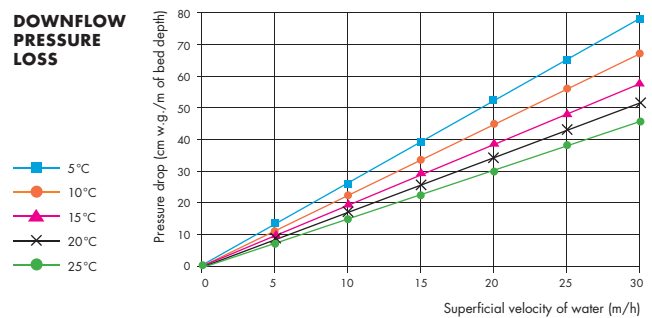


## AquaSorb CS 10x20 mesh

### BED EXPANSION DURING BACKWASH

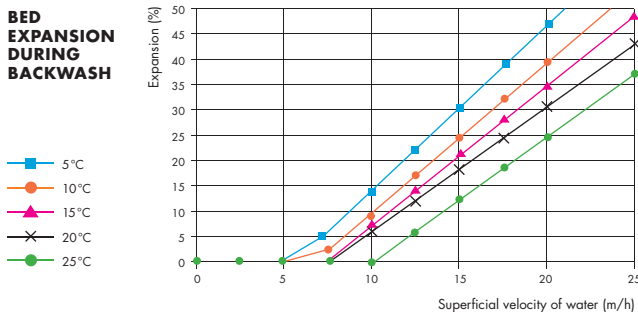


### DOWNFLOW PRESSURE LOSS

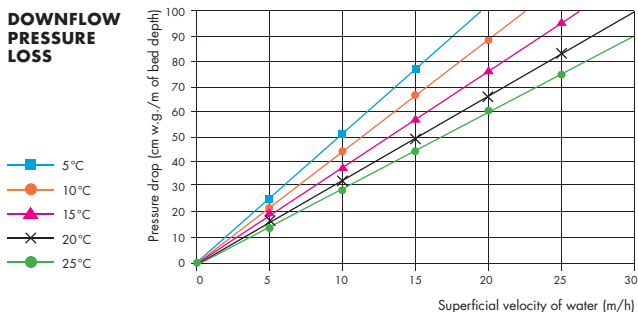


## AquaSorb CS 12x40 mesh

### 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.

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