TECHNICAL DATASHEET

AquaSorb™ CX-MCA

Granular activated carbon for water treatment

AquaSorb™ CX-MCA is a catalytic, high activity granular activated carbon manufactured by steam activation of selected coconut shell charcoal. The catalytic activity of this activated carbon makes it highly effective for the removal of chloramines and hydrogen sulfide from potable water. Its large micropore volume 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 (THMs). An important feature of this material is its superior mechanical hardness and the extensive dedusting during its manufacture ensures an exceptionally clean activated carbon product.



SPECIFICATION*

Iodine number	min. 1000 mg/g
Moisture content, as packed	max. 5 %
Ash content (1)	max. 4 - 5 %
Ball-pan hardness	min. 98 %
Catalytic activity (2)	min. 20 °C

TYPICAL PROPERTIES*

Surface area (BET)	1050 m^2/g
Apparent density	510 kg/m^3
Backwashed and drained density	435 kg/m^3
pH	10
Dechlorination half length value (12x40 mesh)	3.1 cm

(1) ASH CONTENT OF 4% MAXIMUM IS APPLIED TO LARGER PARTICLE SIZE THAN 20X50 MESH. FOR MICRO-GRANULATIONS A MAXIMUM VALUE OF 5% IS APPLIED.
(2) CATALYTIC ACTIVITY IS STATED BASED ON TESTING OF STANDARD PARTICLE SIZES DETAI LED ABOVE. HIGHER VALUES ARE TYPICAL FOR MICRO-GRANULATIONS e.g. 80X325, POWDERS AND FINES.

Features and Benefits

- Catalytic activity for the removal of chloramines, H_2S and H_2O_2
- High content of micropores
- Optimized density
- Maximum hardness
- Low dust and turbidity
- High organic (THM) capacity
- High volume activity
- Rapid dechlorination
- Effective removal of ozone
- Low filtered water turbidity

Available Particle Sizes

- 8x16 mesh (2.36 – 1.18 mm)
- 8x30 mesh (2.36 – 0.60 mm)
- 10x20 mesh (2.00 – 0.85 mm)
- 12x40 mesh (1.70 – 0.425 mm)
- 20x50 mesh (0.85 - 0.30 mm)
- Other sizes considered on request

Certifications and Approvals

- EN12915-1
- AWWA B604
- NSF 61 & 42 standards
- Halal certified
- Kosher certified

Standard Packaging

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



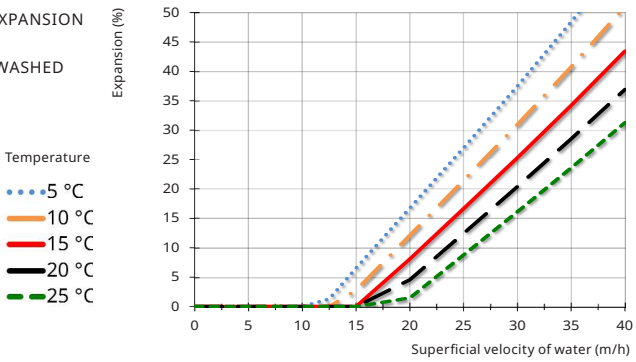
Polypropylene liner-free FIBCs (super sacks), two bags per pallet

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

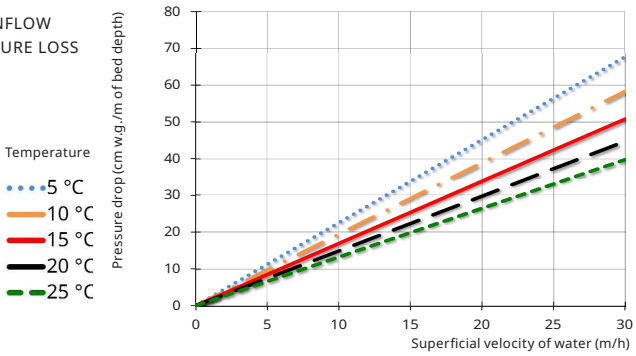
TECHNICAL DATASHEET

AquaSorb™ CX-MCA 8x30 mesh

BED EXPANSION OF A BACKWASHED BED

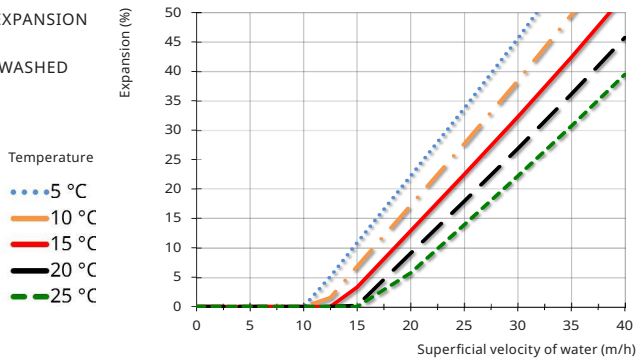


DOWNFLOW PRESSURE LOSS

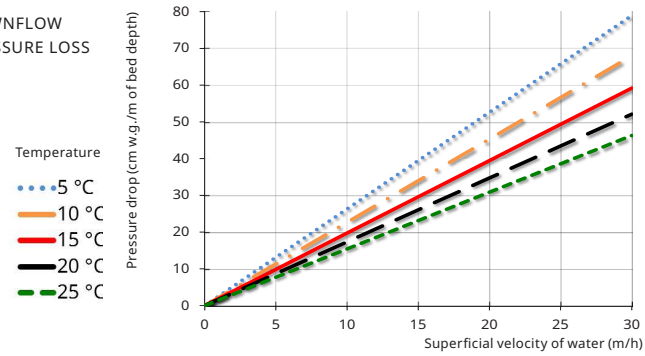


AquaSorb™ CX-MCA 10x20 mesh

BED EXPANSION OF A BACKWASHED BED

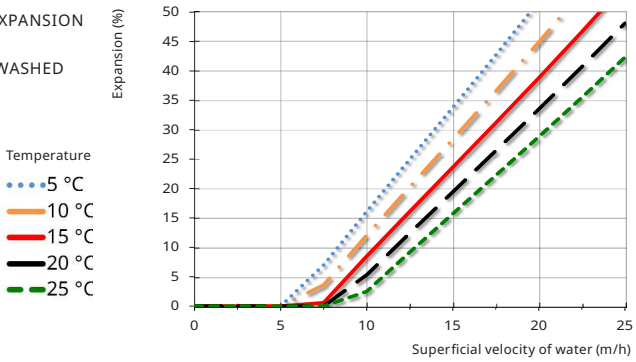


DOWNFLOW PRESSURE LOSS

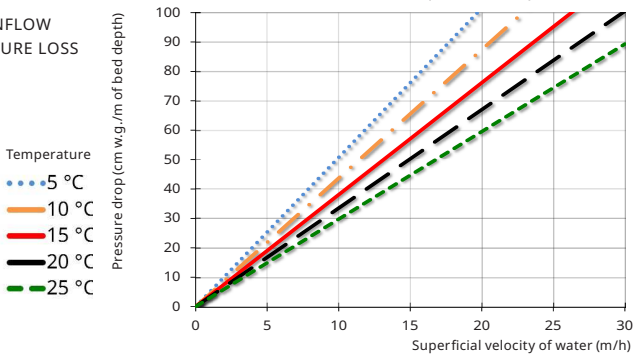


AquaSorb™ CX-MCA 12x40 mesh

BED EXPANSION OF A BACKWASHED BED



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. Typical data only for indicative purposes.

PARTICLE SIZE (MESH)

	20x40	12x40	10x20	8x30	8x16
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	1.2 mm
Mean diameter	0.6 mm	1.0 mm	1.4 mm	1.4 mm	1.8 mm
Uniformity coefficient	<1.5	<1.7	<1.5	<1.6	<1.5

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.

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

Jacobi Carbon is available from:
www.aquatell.ca / www.aquatell.com

FOR MORE INFORMATION OR TO CONTACT JACOBI VISIT: 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.

© Copyright. Jacobi, Jacobi Carbons, PICA and the Jacobi and PICA logos are registered trademarks and AquaSorb, EcoSorb, ColorSorb, DioxSorb, AddSorb, ReSorb, PICACTIF, PICAPURE, PICATOX, PICACARB, PICAGOLD, PICARESP, PICAHYDRO and PICACLEAN are trademarks of Jacobi Carbons, all of which may or may not be used in certain jurisdictions.

JACOBI-TDS-AQUASORB-CX-MCA-A4-ENG-G0623