

TECHNICAL DATASHEET



Distributed by:



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Carbon® 2000

Activated carbon for drinking water treatment

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. 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 ³
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 ² /g
Apparent density	510 kg/m ³
Backwashed and drained density	440 kg/m ³

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

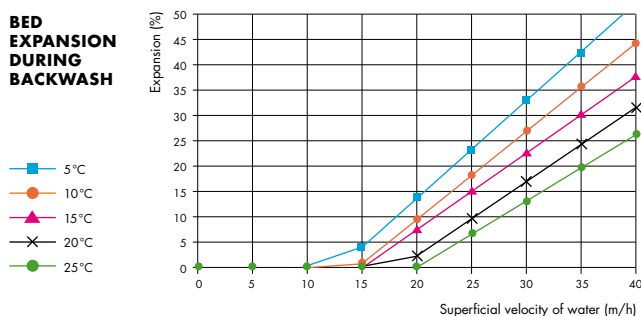
Polypropylene liner-free FIBCs (super sacks), two bags per pallet

* SPECIFICATIONS AND TYPICAL PROPERTIES ARE LISTED FOR INFORMATION PURPOSES ONLY AND NOT TO BE USED AS PURCHASE SPECIFICATIONS. SALES SPECIFICATIONS CAN BE OBTAINED FROM US AND SHOULD BE REVIEWED BEFORE PLACING AN ORDER.

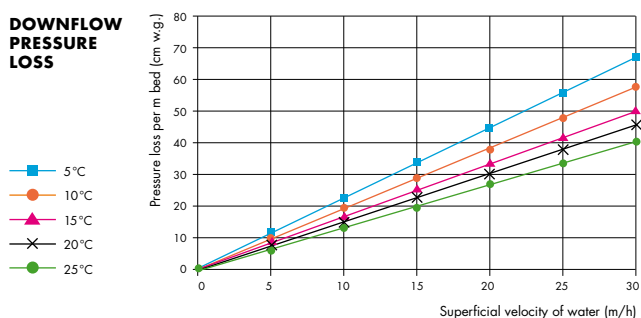


Carbon[®] 2000 8x30 mesh

BED EXPANSION DURING BACKWASH

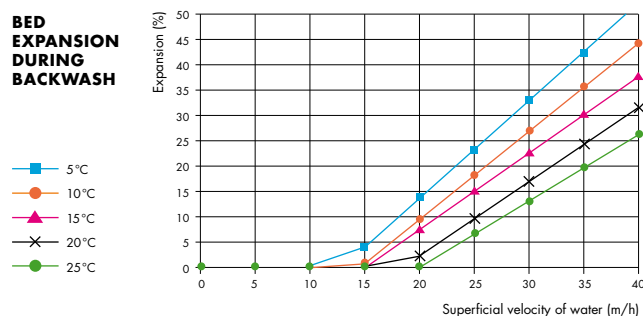


DOWNFLOW PRESSURE LOSS

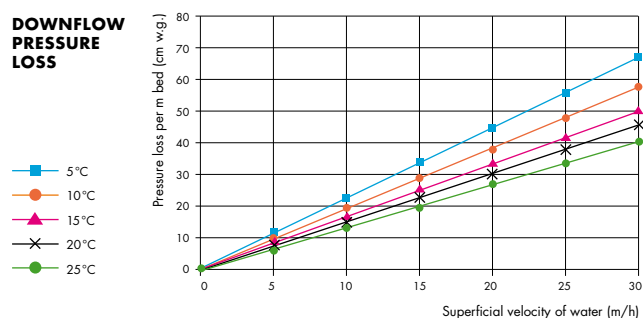


Carbon[®] 2000 10x20 mesh

BED EXPANSION DURING BACKWASH

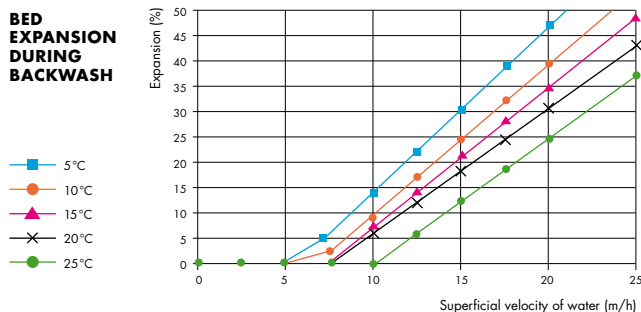


DOWNFLOW PRESSURE LOSS

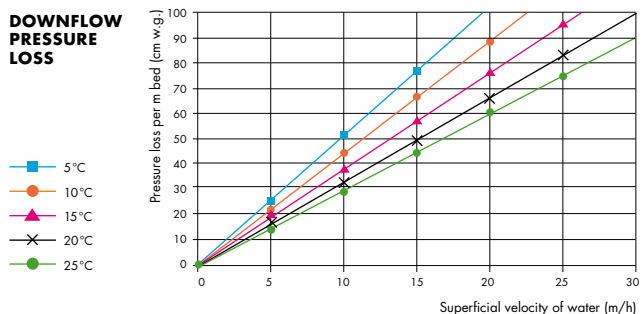


Carbon[®] 2000 12x40 mesh

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

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 S.I.A.T.A 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.

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