

CCA 4,8 €/kg

- XTA, ATAN.



T E C H N I C A L D A T A S H E E T

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## AquaSorb® CS

Granular coconut shell based activated carbon

### Product Introduction

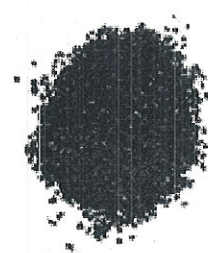
AquaSorb® CS is a high activity granular activated carbon manufactured by steam activation from carefully selected coconut shell charcoal. Resulting from its extensive microporosity this grade is particularly suited to the adsorption of low molecular weight compounds in low concentrations. The material is also ideally suited for the removal of oxidizing agents such as chlorine and ozone from process water applications. A particularly important feature of this material is its superior mechanical hardness that combined with an excellent de-dusting operation ensures an exceptionally clean product.

### Product Key Features

- Extensive internal surface area
- Optimized density
- Highly microporous structure
- Maximum hardness and abrasion resistance
- Certified product

### Benefits

- Excellent adsorption capacity
- High volume activity
- Rapid dechlorination and de-ozonisation
- Clean product without dust
- EN12915



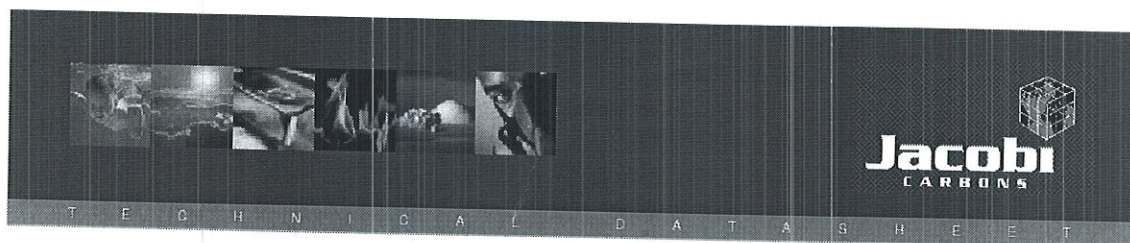
PARAMETER	UNIT	VALUE	TEST METHOD
Iodine number	mg g <sup>-1</sup>	1050	ASTM D4607
Surface area	m <sup>2</sup> g <sup>-1</sup>	1100	BET N <sub>2</sub>
Carbon tetrachloride activity (CTC)	%	55	ASTM D3467
Total pore volume	cm <sup>3</sup> g <sup>-1</sup>	0.62	Porosimetry (N <sub>2</sub> / Hg)
Apparent density	kg m <sup>-3</sup>	510	ASTM D2854
Bed density, backwashed and drained	kg m <sup>-3</sup>	435	Note 1
Wettability	%	99.9	JACOBI T4003
Mixture content - as packed	%	3	ASTM D2867
Water soluble matter	%	0.5	ASTM D3838
pH		10	ASTM D3838
Chlorine half length value (12x40 USS)	cm	1.8	DIN 19603
Ball-pen hardness number	%	99	ASTM D3802

Note 1: Value is based on the bedweighting of a bed of AquaSorb® CS activated carbon at 50% expansion, which has been allowed to drain and settle.

### TYPICAL APPLICATIONS

- Point-of-use (POU) filters
- Municipal water treatment
- Residential water treatment
- Soft drinks disinfection
- Brewery water purification
- Boiler feed water treatment
- Swimming pool filters
- Protection of ion exchange resins
- Protection of RO membranes

PARAMETER	UNIT	20x50 USS	12x40 USS	8x30 USS	10x20 USS	8x16 USS	6x12 USS
Available particle sizes	mm	0.30-0.85	0.425-1.70	0.60-2.36	0.85-2.00	1.18-2.36	1.70-3.36
Oversize maximum	%	5	5	5	5	5	5
Undersize maximum	%	4	4	4	4	4	4
Effective size	mm	0.45	0.6	0.8	1.0	1.2	1.8
Uniformity coefficient		1.4	1.7	1.7	1.6	1.5	1.2
Mean particle diameter	mm	0.6	1.0	1.4	1.4	1.8	2.3



#### Product Packaging



Polyethylene valve bags of 25 kg  
(55 lb) net weight on 500 kg  
(1100 lb) pallets



Polypropylene non-liner  
FIBCs (big bags) of 500 kg  
(1100 lb) net weight



All materials supplied are  
in full accordance with our  
ISO 9002 quality system.

**CAUTION:** Activated carbon is a strong oxidizing agent and can remove oxygen from air under wet or humid conditions. Care should be taken when entering confined spaces where wet activated carbon is present. Ensure the use of correct breathing apparatus. Material Safety Data Sheets should be consulted for further details on procedures in the event of contact with activated carbon.

**NOTICE:** Due to the progressive nature of Jacobí 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 Jacobí Carbons. The customer is responsible for determining whether products and the information contained in this document are appropriate for the customer's use. Jacobí Carbons assumes no obligation or liability for the usage of the information in this datasheet, no guarantees or warranties, expressed or implied, are provided. Jacobí Carbons disclaims responsibility and the user must accept full responsibility for performance of systems based on this data.

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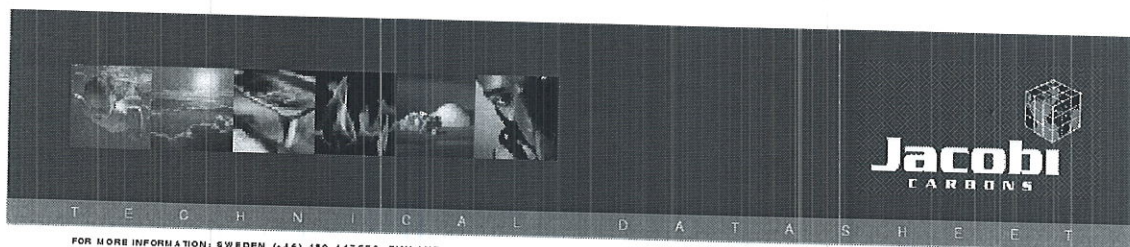
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**WORLDWIDE DISTRIBUTORS** A diverse network of agents, strategically located around the world. Please contact any Jacobí Carbons office to locate your nearest distributor.

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## AquaSorb® CS

Analysis of AquaSorb® CS activated carbon produced by Jacobi Carbons to EN12915 standard for materials to be used in the treatment of potable water and foodstuffs.

The determination of compliance with EN12915 was conducted by Institut Fresenius, Chemische und Biologische Laboratorien GmbH, Im Maisel 14, 65232 Taunusstein, Germany.

PARAMETER	RESULT	SPECIFICATION
Moisture content (105°C)	1.6 %	5% max
Residue on ignition (650°C)	2.0 %	15% max
<b>Water Extractable toxic substances</b>		
<b>Heavy metals</b>		
Antimony (Sb)	<1 µg l <sup>-1</sup>	≤3 µg l <sup>-1</sup>
Arsenic (As)	<1 µg l <sup>-1</sup>	≤10 µg l <sup>-1</sup>
Cadmium (Cd)	<0.5 µg l <sup>-1</sup>	≤0.5 µg l <sup>-1</sup>
Chromium (Cr)	<5 µg l <sup>-1</sup>	≤5 µg l <sup>-1</sup>
Lead (Pb)	<5 µg l <sup>-1</sup>	≤5 µg l <sup>-1</sup>
Mercury (Hg)	<0.3 µg l <sup>-1</sup>	≤0.3 µg l <sup>-1</sup>
Nickel (Ni)	<5 µg l <sup>-1</sup>	≤5 µg l <sup>-1</sup>
Selenium (Se)	<1 µg l <sup>-1</sup>	≤3 µg l <sup>-1</sup>
Cyanid compounds	<5 µg l <sup>-1</sup>	≤5 µg l <sup>-1</sup>
Polycyclic aromatic hydrocarbons (PAH)	<0.01 µg l <sup>-1</sup>	≤0.02 µg l <sup>-1</sup> as sum
Flouranthene		
Benzo(b)flouranthene		
Benzo(k)flouranthene		
Benzo(a)pyrene		
Benzo(ghi)perylene		
Indeno(1,2,3-cd)pyrene		
Wettability	>99.99%	>99%
Water solubility	0.42 %	3% max
Zinc	0.0016 %	≤0.002 %
Iodine number	1200 mg g <sup>-1</sup>	≥900 mg g <sup>-1</sup>

### Conclusion

The activated carbon AquaSorb® CS is manufactured by Jacobi Carbons in accordance with EN12915 for materials used for the treatment of water and food products intended for human consumption.

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AquaSorb® CS EN12915



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Sample No. 00TC116384

**Test results**

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Residue on ignition (650°C)	2.0%	15% Max.
Water extractable toxic substances		
Heavy Metals		
Antimony (Sb)	<1µg/l	≤3µg/l
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Cyanide compounds	<5µg/l	≤5µg/l
Polycyclic aromatic hydrocarbons (PAH)	<0.01µg/l	≤0.02µg/l as sum
Flouranthene		
Benzo(b)flouranthene		
Benzo(k)flouranthene		
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Benzo(ghi)perylene		
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