



ColorSorb® G7

Powdered wood based activated carbon

Product Introduction

ColorSorb® G7 is a high activity powdered activated carbon manufactured by steam activation from selected grades of wood. This material exhibits a highly macroporous structure, giving excellent adsorption of medium-to-high concentrations of high molecular weight organic substances in liquid phase applications. ColorSorb® G7 is manufactured with a neutral surface pH so that adsorption in pH sensitive liquors can be achieved without adverse reactions, for example in the decolorization of sugar. ColorSorb® G7 is used in a variety of processes in the chemical, food and pharmaceutical industries and meets the requirements of the *Food Chemical Codex*, fourth edition.

Product Key Features

- Enhanced macroporosity
- Steam activation, low ash
- Strictly controlled particle size
- Neutral surface pH
- *Food Chemical Codex*, fourth edition

Benefits

- Excellent removal of colour bodies
- High purity, low leach of soluble compounds
- Excellent filtration characteristics
- Reduced risk of adverse reactions
- Designed for food processes



PARAMETER	UNIT	VALUE	TEST METHOD
Iodine number	mg g ⁻¹	950	ASTM D4607
Surface area	m ² g ⁻¹	1000	BET N ₂
Molasses number		298	JACOBI T4002
Methylene blue	mg g ⁻¹	220	JACOBI T4001
Total pore volume	cm ³ g ⁻¹	2.35	N ₂ /Hg porosimetry
Tamped density	kg m ⁻³	390	JACOBI T4007
Moisture content - as packed	%	5	ASTM D2867
Water soluble matter	%	2	ASTM D5029
pH		6.5	ASTM D3838
Filtering speed	s	60	JACOBI T4008
Particle size distribution			ASTM D5158
>100 USS (0.15mm)	%	Trace	
>200 USS (0.075mm)	%	10	
>325 USS (0.045mm)	%	25	
Mean particle diameter	µm	21	

TYPICAL APPLICATIONS

- Vegetable oil decolorization
- Hydrolysed vegetable protein (HVP)
- Cane sugar purification
- Lactose clarification
- Treatment of chemical intermediates
- Colour removal from scrap candy
- Mono-sodium glutamate (MSG)
- Decolorizing of citric acid
- Beet sugar purification



Jacobi
CARBONS

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

Product Packaging



Polyethylene valve bags of 25 kg
net weight on 500 kg pallets



Polypropylene non-linear
FIBCs (big bags) of 500 kg
net weight



All materials supplied are
in full accordance with our
ISO-9000 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 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 the 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.

SWEDEN

Jacobi Carbons AB
Varvsholmen
SE-392 30 Kalmar

Phone: +46-480-417550
Fax: +46-480-417559
Email: info@jacobi.net
<http://www.jacobi.net>

FINLAND

Jacobi Carbons (Suomen sivul.)
Ratakatu 1b A3
FIN-00120 Helsinki

Phone: +358-9-643602
Fax: +358-9-642900
Email: infofin@jacobi.net

GERMANY

Jacobi Aktivkohle GmbH
Feldbergstraße 21
D-60323 Frankfurt/Main

Phone: +49-69-719107-0
Fax: +49-69-719107-20
Email: infofde@jacobi.net

UNITED KINGDOM

Jacobi Carbons Ltd
Njord House, Lord Street
Birkenhead, CH41 1HT

Phone: +44-151-649-8344
Fax: +44-151-649-8345
Email: infofuk@jacobi.net

UNITED STATES

Jacobi Carbons, Inc.
1518 Walnut Street, Ste 1100
Philadelphia, PA 19102

Phone: +1 (215) 546-3900
Fax: +1 (215) 546-9921
Email: infofous@jacobi.net

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

AquaSorb, EcoSorb, GoldSorb, ColorSorb, DioxSorb, AddSorb and Jacobi are registered trademarks of Jacobi Carbons. © Jacobi Carbons AB, 2001