



# TECHNICAL DATASHEET

## ColorSorb™ XFP21

### Activated carbon for edible oil purification

ColorSorb™ XFP21 is a high activity grade of powdered activated carbon specifically developed for the purification of edible oils. In particular, the material is extremely efficient in the reduction of trace contaminants such as Benzo[a]Pyrene and other polycyclic hydrocarbons resulting from extraction and refining processes. Manufactured by steam activation, this material has a high level of purity and exhibits the perfect balance between adsorption and transportation pores. The enhanced mesoporous structure provides optimum performance in a wide range of trace contaminant removal and decolorization duties. The product meets the requirements of the Food Chemical Codex.



#### SPECIFICATION\*

Molasses number (EU)	max. 500
Iodine number	min. 950 mg/g
Moisture content, as packed	max. 8 %
pH	7 -11
Ash content	Report

#### TYPICAL PROPERTIES\*

Surface Area (BET)	1000 m <sup>2</sup> /g
Iodine number	970 mg/g
Molasses number (EU)	350
Ash content	12 %

\* 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.

#### Features and Benefits

- Differentiated pore structure
- High total pore volume
- Strictly controlled particle size
- Versatile adsorbent
- Added decolorizing capability
- Excellent filtration characteristics
- Minimal effect on liquor characteristics
- Designed for food processes

#### Certifications and Approvals

- Food Chemical Codex compliant

#### Standard Particle Sizes

- PAC-C: 40% max. <325 mesh
- PAC-S: 65% to 85% <325 mesh

#### Standard Packaging

- 20 kg multi-layer valve sack (44lb)
- 500 kg bulk bag (1100 lb)
- Other packing considered on request



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



## PARTICLE SIZE DISTRIBUTIONS

US mesh size	PAC-C	PAC-S
>80	<5%	0%
<100	>70.0%	>95%
<200	50-80%	>90%
<325	<40%	65.85%
$d_{50}$	>35 $\mu$ m	15-35 $\mu$ m

OTHER PARTICLE SIZE DISTRIBUTIONS ARE AVAILABLE ON REQUEST, INCLUDING MICRONISED AND HIGH FILTERABILITY PRODUCTS TO SUIT ALL FILTRATION NEEDS.

## PRODUCTION CAPABILITY

The Jacobi Carbons Group of companies own and operate 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.

## PRODUCT PERFORMANCE



PERFORMANCE IS COMPARATIVE TO OTHER JACOBI COLORSORB™ GRADES AND THE LEADING COMPETITIVE PRODUCT IN THE REMOVAL OF BENZOPHENONE-3(UVA) FROM REFINED RAPE SEED OIL UNDER STANDARD PROCESS CONDITIONS. FOR FURTHER DETAILS, PLEASE CONSULT THE RELEVANT JACOBI TECHNICAL BULLETIN.

## 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.