Jacobi | THE CARBON COMPANY PICA | A JACOBI CARBONS COMPANY

TECHNICAL DATASHEET

ColorSorb® HP-150

Speciality activated carbon for decolorising duties

ColorSorb® HP-150 is effective in the treatment of mildly discolored liquids, food stuffs, chemicals and pharmaceutical products. This material has a macroporous structure for efficient diffusion and adsorption of high molecular weight organic substances in liquid phase decolorization applications. The chemical activation process produces an adsorbent with a surface pH designed to maximize decolorization performance. Strict control of the particle size is used to optimize adsorption kinetics and maintain high filterability.

SPECIFICATION*

Molasses number (EU)	max. 190
Total ash content	max. 8%
Moisture content	max. 10%
pH	1-4
Phosphate content	max. 2%

TYPICAL PROPERTIES*

Methylene blue index	120 ml/g
Surface Area (BET)	1400 m^2/g
Iodine number	900 mg/g
Water soluble ash	3%
Acid soluble iron content	400 ppm

* 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

- Decolorising product
- Acidic pH range
- Sustainable raw material
- Rapid adsorption kinetics
- Range of particle sizes
- Quick dispersion in liquids
- Food codex compliant
- Homogenous product

Available Particle Sizes

- PAC–C < 45% < 325 mesh
- PAC–S 55-70% < 325 mesh
- PAC–F > 90% < 325 mesh

Approvals and Certifications

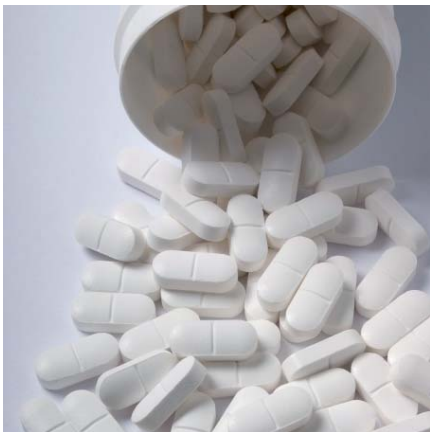
- Food Chemicals Codex
- Halal certified
- Kosher certitied

Standard Packaging

- 20 kg multiwall paper sack (44 lb)
- 350 kg bulk bag (770 lb)
- Other packing considered on request

Robust multi-wall paper sacks with integral bonded plastic layer within the sack construction ensures durability in transit. Sacks stowed on pallets and wrapped to ensure easy handling.

Technical Datasheet: ColorSorb® HP-150



PARTICLE SIZE DISTRIBUTIONS

US mesh size	PAC-C	PAC-S	PAC-F
>80	<0.5%	0%	0%
<100	>90.0%	>95%	>99.5%
<200	55-70%	>85%	>95%
<325	<45%	65-85%	>90%
d_{50}	>35µm	15-35µm	8-15µm

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

BURNING AND EXPLOSION CHARACTERISTICS

Auto-ignition temperature	410 °C	
Smolder temperature	No smoldering up to 400 °C	
Dust explosion class	St1 (weak explosion potential)	
TGA/TDA under air	307°C (medium reactivity)	
Minimum ignition energy	>1200mJ	
Minimum ignition temperature	>740°C	
Lower explosion limit	>60g/m³	
Explosion severity (20l sphere)	P max.	6.3 bar
	MRE (ΔP)	175 bar/s
	Kmax or Kst	85 bar/m/s

DATA PROVIDED IS INDICATIVE ONLY AND BASED ON THE ANALYSIS OF MATERIAL UNDER SPECIFIC CONDITIONS. THESE MAY NOT BE REPRESENTATIVE OF PREVAILING CIRCUMSTANCES DURING THE HANDLING AND USE OF THIS ACTIVATED CARBON GRADE.

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.

For more information or to contact Jacobi visit: www.jacobi.net

JACOBI-TDS-COLORSORB-HP150-A4-ENG-C1012

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

Jacobi
THE CARBON COMPANY