

PULSORB® 208CP

Powder Activated Carbon

DESCRIPTION

PULSORB® 208CP is a high activity activated carbon produced by high temperature, steam activation of selected grades of coconut char which are then milled under defined conditions to produce the powder. This carefully controlled process develops an exceptionally high internal surface area with a pore structure optimised for the adsorption of organic impurities.

FEATURES

PULSORB® 208CP has several properties which explain its superior performance in a wide range of applications:

- By producing from carefully selected natural renewable coconut resources, the powder activated carbon is more uniform resulting in **consistent high quality product**.
- Powder activated carbons are uniform activated over the whole particle, not just the outside. This results in **excellent adsorption properties** in a wide range of applications.
- Optimal mesh size that ensures a **rapid rate of adsorption**.
- A controlled particle size distribution that allows for ease of handling in most feed systems, and enables a consistently lower filter cake resistance to be achieved, resulting in higher filtration rates for industrial applications
- Coconut carbons have superior hardness characteristics that minimise fragmentation thus maintaining optimum particle size distribution.

SELECTION

PULSORB® 208CP should be selected where:

- Higher retentivity is required, especially with lower molecular weight compounds.
- High or specific purity requirements are demanded.
- Carbon attack, causing particle breakdown, could occur
- Enhanced access to micropores is required

PROPERTIES

PULSORB® 208CP	
SPECIFICATIONS	
Iodine Number, min., mg/g	1050
Moisture, as Packed, max., wt%	10
Particle size analysis, wt% < US mesh 325 (45 µm)	65-85

(Please refer to the Sales Specification Sheets, which state the Chemviron test method used to define the above specifications. Copies are available upon request.)

PULSORB® 208CP	
TYPICAL PROPERTIES	
Loose packed density ¹ , kg/m ³	400
Surface Area, (N ₂ BET method ²), m ² /g	1200
Carbon tetrachloride activity, wt%	65
Water Extractable, max., wt%	3
Contact pH Range	9-11

¹ Loose packed density to determine amount that can be filled into silo by bulk tanker.

² Brunauer, Emmett and Teller, J. Am. Chem. Soc. 60. 309 (1938).



Powder activated carbon (PAC)

DESIGN INFORMATION

The main design considerations for the use of powder activated carbon are the carbon type, the dose rate, contact time and dosing point in the plant or process.

PACKAGING

- 20 kg bags

SAFETY MESSAGE

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low-oxygen spaces should be followed.

QUALITY

Each of our worldwide operations has achieved **ISO 9001:2015** certification for their quality management system related to activated carbon. **Chemviron** guarantees the specifications against representative sampling.

CHEMVIRON

Chemviron, the European operation of Calgon Carbon Corporation, is a global manufacturer, supplier, and developer of activated carbons, innovative treatment systems, value added technologies and services for optimising production processes and safely purifying the environment.

With our experience developed since the early years of the twentieth century, facilities around the world and a world-class team of over 1,300 employees, Calgon Carbon Corporation can provide the solutions to your most difficult purification challenges.

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