

GOLDCARB® 207C

Coconut Based Granular Activated Carbon

DESCRIPTION

GOLDCARB® 207C is a very high activity carbon for use in the recovery of gold from cyanide solution. It is manufactured from specific grades of coconut shell to produce a high quality carbon that can meet the demands of gold producers. **GOLDCARB® 207C** can achieve rapid adsorption kinetics, excellent gold loading and consistent in-circuit performance. These properties, coupled with high attrition resistance and low platelet development, make this an ideal carbon for gold producers. **GOLDCARB® 207C** is one of a range of **Chemviron** products used by the Gold Industry throughout the world including South Africa, Australia, North & South America and Europe.

FEATURES

GOLDCARB® 207C has several properties which explain its performance in a range of applications:

- Selected pore structure for maximum gold loadings.
- Rapid Adsorption Kinetics.
- Low attrition values to minimise gold loss
- Low platelet concentration to improve inter-stage screening efficiency.
- Maximum gold liberation during elution.
- Strictly controlled size distribution.
- Consistent performance.
- Can be reactivated.
- Proven successfully in many gold mines.
- Suitable for plants operating the following processes:
 - o Carbon in Pulp (CIP)
 - o Carbon in Leach (CIL)
 - o Carbon in Suspension (CIS).

PROPERTIES

GOLDCARB® 207C	
SPECIFICATIONS	
Carbon Tetrachloride activity, min., wt%	55
Moisture Content, as packed, max., wt%	5
Hardness number, min., %	95
Mesh Size, US sieve Series, wt%	
>6 mesh (3.35mm), max.	5
<12 mesh (1.70mm), max.	3

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

GOLDCARB® 207C	
TYPICAL PROPERTIES	
Apparent density, kg/m ³	550
Surface Area, (N ₂ BET method**), m ² /g	1100
Iodine Number	1100
Mean Particle Diameter, mm	2.4
K Value ***	25
R Value ***	50
Attrition Max %	2

* Backwashed and Drained Density for adsorber sizing

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

*** Testing methods to Anglo America Research Laboratories testing procedure.



DESIGN INFORMATION

The following are typical design parameters for **GOLDCARB®** used in recovery operations.

- | | |
|------------------------------------|-----------|
| • CIP Process Carbon Concentration | 10-30 g/l |
| • CIL Process Carbon Concentration | 3-15 g/l |
| • CIS Process Contact Time | 5-15 min |

PACKAGING

- 25 kg bags
- Big 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 9001:2008** 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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