



## **OUR PRODUCTS**

**Coal Based  
Activated Carbon**



**Coconut Based  
Activated Carbon**



## Coal Based Activated Carbon

Longevity Group is a leading manufacturer of Coal Based Carbon, catering to various industries. With a reputation for delivering premium quality products, we have established ourselves as a renowned manufacturer in India. Our Coal Based Carbon undergoes rigorous quality testing to ensure optimal performance, and we offer competitive pricing.

We produce a comprehensive range of Coal Based Carbon variants to meet diverse demands. Committed to client satisfaction, we prioritize offering a wide selection of Coal Based Carbon products tailored to the needs of our customers worldwide. As a prominent manufacturer, distributor, and exporter we adhere to international quality standards in the production of Coal Based Carbon. Our commitment to excellence ensures that we deliver superior quality products to our valued clients worldwide.

## Certificate of Analysis

SPECIFICATION	TECHNICAL DATA
MESH SIZE	4/8 & 8/16 & 8/30 & 30/60
IODINE VALUE	400 - 500 IV
DENSITY IN kg/m <sup>3</sup> (min)	520-570
BALL PEN HARDNESS	70%
MOISTURE (MAX)	5 %
ASH (MAX)	30-32%
PH	9-11

Coal based activated carbon originates from coal that has undergone a steam activation process. During activation, millions of pores are created on the surface of the carbon, increasing the total surface area. Coal based carbon has mainly meso-pores and macro-pores and is very popular in gas phase purification, potable water purification, wastewater purification and aquarium/pond water purification applications.

Demand is typically high for this relatively low-cost filter media for both gas and liquid applications. We stock a large variety of granular and pelletized grades (3mm, 4mm & 5mm) in addition to powder carbon. We have excellent sourcing capabilities for a number of specialized coal based activated carbons available for direct shipment in container loads to worldwide destinations.





## Coconut Based Activated Carbon

Longevity Group is a leading manufacturer of Coconut Based Carbon, serving diverse industries with a comprehensive range of products. With a steadfast commitment to quality, we have earned a reputation as a premier manufacturer of Coconut Based Carbon in India since our inception. Our products undergo thorough quality testing to ensure adherence to the highest standards, and we offer competitive pricing for our Coconut Based Carbon solutions. We specialize in manufacturing various types of Coconut Based Carbon to cater to the specific needs of our clientele.

Recognized for our excellence in manufacturing, we take pride in offering a broad selection of Coconut Based Carbon products that are in high demand across various industries. Our client-centric approach drives us to provide an extensive range of Coconut Based Carbon solutions tailored to the requirements of our customers worldwide. As a prominent manufacturer, distributor, and exporter we uphold international quality standards in the production of Coconut Based Carbon. Our commitment to delivering superior quality products enables us to meet the needs of our valued clients globally with utmost satisfaction.

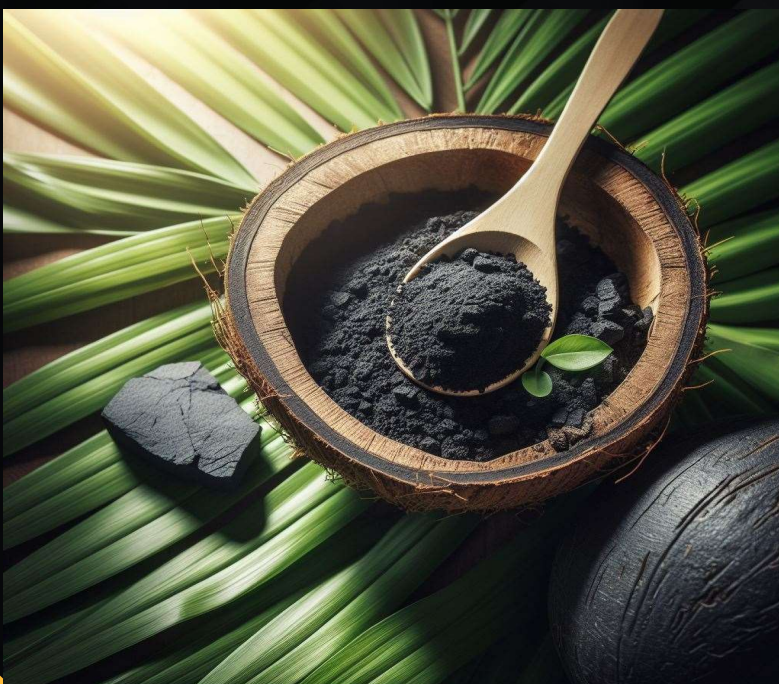
## Certificate of Analysis

SPECIFICATION	TECHNICAL DATA	TECHNICAL DATA
MESH SIZE	8/30 & 12/40, 20/40 & 30/60	8/30 & 12/40, 20/40 & 30/60
IODINE VALUE	900 – 950 IV	1050-1100 IV
DENSITY IN kg/m <sup>3</sup> (min)	480-520	480-520
BALL PEN HARDNESS	99 %	99%
MOISTURE (MAX)	5 %	5 %
ASH (MAX)	5%	3%
PH	9-11	9-11

Like its name, coconut shell activated carbon comes from the coconut shell. To create its activated carbon form, the coconut undergoes a steam activation process. During activation, it creates millions of pores at the surface of the carbon thus increasing the total surface area. Coconut shell carbon has mainly micro-pores to meso-pores and due to its unique distribution of pore diameter, coconut shell activated carbons are very popular in the gas phase purification and potable water purification industries. Coconut shell-based activated carbons are the least dusty. Predominantly microporous, they are well-suited for organic chemical adsorption.

Coconut shell-based carbon has the highest hardness compared to other types of activated carbons, which makes it the ideal carbon for water purification. In terms of base materials, coconut shell and wood are renewable resources. Coconut plantations with millions of acres of land continue to provide all the benefits of green trees to our environment in spite of using billions of coconut shells per year for activation.

Activated carbon is produced from coconut shells in a two-step process. The first step in activation is to carbonize the shells to drive about two-thirds of the volatiles out of the shells, creating a carbonaceous mass full of tiny pores. In the second stage, this carbonized base material is activated at high temperature (1,100 °C/2,012 °F) in steam. Activation temperature and the amount of activation time are important to create the internal pore networks and to impart certain surface chemistries (functional group) inside each particle. In essence, the total activation process gives carbon its unique adsorption characteristics.



## Gold Grade Carbon

Longevity gold coconut shell based activated carbon is manufactured and marketed widely for gold recovery. Carbons of convenient sizes with different iodine values are available.

### Benefits

- High Hardness
- High Adsorption Capacity
- High Adsorption Rate
- Low Attribution Loss
- Low Platelets



### Specifications

PARAMETER	VALUE	TEST METHOD
MOISTURE	4% MAX	ASTM D2867
ASH	3% MAX	ASTM D2866
PH	9-11	ASTM D3838
CTC	55% MIN	ASTM D3467
IODINE	1100 MG/G MIN	ASTM D4607
APPARENT DENSITY	0.480 G/CC MIN	ASTM D2854



## Specifications

PARAMETER	VALUE	TEST METHOD
K VALUE	28 MIN	AARL
PLATELETS	4% MAX	AARL
GOLD R VALUE	55 MIN	AARL
<b>PARTICLE SIZE DISTRIBUTION</b>		
+6	5% MAX	ASTM D2862
-12	5% MAX	ASTM D2862

**PACKING:** The material is packaged in 50kgs net poly woven bags or 25kgs net in PP bags with inner lining shrink wrapped and palletized into fumigated Pallets as per ISPM 15 standard.

**STORAGE:** Store the material in a cool dry area, away from sunlight.

**LABELING :** The label displays the product name , lot number , net weight , gross weight, manufacturer name & address and other information or marks as required by the customer.

**HANDLING:** Handle carefully to minimize attrition. Provide adequate ventilation and avoid contact with eyes and skin.

**CERTIFICATE OF ANALYSIS (COA) AND MSDS WILL BE PROVIDED ALONG WITH THE CONSIGNMENT.**

## We Are Available Worldwide

Longevity Group proudly stands as a foremost manufacturer of Activated Carbon, both in India and on a global scale. Our steadfast commitment to quality and ethical standards has established us as a frontrunner in the industry, leveraging 5th generation technology. Our reputation for excellence extends beyond borders, earning recognition in numerous leading nations worldwide.

To facilitate seamless access to our products internationally, we have instituted a dedicated department comprising expert professionals tasked with managing our global deliveries. Moreover, our specialized distribution network and international agents division are tailored to meet the unique requirements of our clients.

At Longevity Group, punctuality is paramount. We ensure timely delivery of our products irrespective of geographical location. Our relentless pursuit of excellence guarantees that customers receive nothing short of the finest products and services, regardless of their global location.

As members of the global business community, we take immense pride in our contributions and eagerly anticipate the opportunity to fulfill your requirements.





# Longevity Group

For inquiries, collaborations, or any assistance needed, please reach out to our dedicated team at Longevity Group.



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