



# MAHAVIR CARBON

PURITY IN EVERY PARTICLE

PREMIUM QUALITY

## ACTIVATED CARBON PRODUCTS

Delivering high performance activated carbon solutions for a cleaner, safer and sustainable future.



PREMIUM  
QUALITY



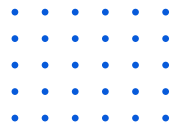
TRUSTED  
SOLUTIONS



SUSTAINABLE  
FUTURE

POWERING A  
CLEANER WORLD  
WITH THE POWER  
OF CARBON





# CARBON & INDUSTRIAL PRODUCTS

*Quality Products. Reliable Solutions.  
Stronger Partnerships.*



## WHO WE ARE

We are pleased to introduce ourselves as one of the **Leading Merchant cum Manufacturer Exporters** in India. We specialize in a wide range of product categories to cater the evolving needs of our esteemed Customers.



## OUR COMMITMENT

We are committed to bringing you the best available products, along with the highest standards of Quality at optimum price. We always strive to build lasting business partnerships with our clients by offering the best value proposition for the trade.



## OUR PROMISE

We do acknowledge the importance and essentially of choosing the reliable supplier which requires attention and due diligence in the international market. We recognize our responsibilities and trust bestowed by our clients when they select us as their suppliers, we make sure that we delight them each and every time with our Quality Products, Timely Delivery, Precise Communication & Professional Approach.



## QUALITY YOU CAN TRUST.

We deliver products you can rely on, every time.



## VALUE YOU CAN COUNT ON.

Best quality at the right price, creating value for your business.



## COMMITMENT YOU CAN DEPEND ON.

Building long-term partnerships through trust, transparency and timely service.



## OUR VISION



To create a future where people are safe and the environment is protected from pollution, air, water, food, consumable and Industrial Products.



## OUR MISSION

To contribute to the growth of society as we grow the company business. To unlock the worldwide market potential for the products manufactured locally. To exceed our customer's expectations in quality, delivery, and cost through continuous improvement and customer interaction.



# COCONUT SHELL ACTIVATED CARBON

- Coconut shell activated carbon has a very high hardness and is more abrasion resistant than any other type. It is a totally natural, environmentally friendly product, that has a very small carbon footprint, since it is derived from coconut shells. As most of its pore structure consists of micro pores (more than 80%), coconut shell carbon can efficiently absorb impurities with micro pore molecular structure, such as those present in drinking water. In addition, because of its high abrasion resistance and exceptional chemical and physical characteristics, only coconut shell activated carbon can support applications such as recovery of gold and precious metals.



## USES :

- PORTABLE WATER PURIFICATION
- WASTEWATER PURIFICATION
- GOLD ABSORPTION FROM GOLD SOLUTION
- ORGANIC IMPURITY REMOVAL IN FOOD AND BEVERAGE APPLICATIONS

## FEATURES :

| APPEARANCE    | COCONUT SHELL ACTIVATED CARBON   |
|---------------|----------------------------------|
| PARTICLE SIZE | 8x10, 12x30, 12x40, 16x30, 18x40 |

### SPECIFICATION OF 8X20 COCONUT SHELL ACTIVATED CARBON

|                                                |         |         |         |         |         |
|------------------------------------------------|---------|---------|---------|---------|---------|
| [+8 Mesh (+2.36 mm)]                           | 5% MAX  | 5% MAX  | 5% MAX  | 5% MAX  | 5% MAX  |
| [-20 Mesh (-0.850 mm)]                         | 5% MAX  | 5% MAX  | 5% MAX  | 5% MAX  | 5% MAX  |
| IODINE ABSORPTION                              | 950     | 1000    | 1100    | 1050    | 1300    |
| PH                                             | 9 to 11 | 9 to 11 | 9 to 11 | 9 to 11 | 9 to 11 |
| MOISTURE                                       | 5% MAX  | 5% MAX  | 5% MAX  | 5% MAX  | 5% MAX  |
| TOTAL SURFACE AREA                             | 950     | 1000    | 1100    | 1050    | 1300    |
| Apparent Density in Kg/m <sup>3</sup> (Minim.) | 540     | 530     | 510     | 490     | 430     |
| BALL PAN                                       | 98% Min | 98% Min | 98% Min | 98% Min | 98% Min |
| ASH CONTENT                                    | 3% Max  | 3% Max  | 3% Max  | 3% Max  | 3% Max  |



# COAL BASED ACTIVATED CARBON

- Coal based activated carbon is available in four different types of base material - bituminous, subbituminous, anthracite, & lignite, consisting of micro, meso and macro pore structures. This unique pore distribution makes coal based activated carbon ideal to remove small to large molecular structures. Typical applications include but not limited to odor control in liquid & vapor phase applications, improve taste in liquids, liquid decolorization and purification of wastewater & potable water. Coal base carbon is also available in granular, extruded (Pelletized), and powder forms.



## USES :

- PORTABLE WATER PURIFICATION
- WASTEWATER PURIFICATION
- INDUSTRIAL AIR PURIFICATION
- PURIFICATION OF FOOD AND BEVERAGE
- MEDICAL AND PHARMACEUTICAL USES
- AUTOMOTIVE USES
- CHEMICAL PURIFICATION

## SPECIFICATION OF ACTIVATED CARBON COAL BASE

| Sr No. | Properties           | 500 IV                  | 600 IV                  | 800 IV                  |
|--------|----------------------|-------------------------|-------------------------|-------------------------|
| 01     | Particle Size        | 4/8, 8/16, 12/40, 16/30 | 4/8, 8/16, 12/40, 16/30 | 4/8, 8/16, 12/40, 16/30 |
| 02     | Iodine Value         | 500                     | 600                     | 800                     |
| 03     | Iodine Absorption    | 500mg/gm                | 600mg/gm                | 800 mg/gm               |
| 04     | Bulk Density         | 0.50 - 0.53 gm/s        | 0.52-0.54 gm/s          | 0.53 - 0.55 gm/s        |
| 05     | Hardness No          | 62 - 65                 | 65 - 70                 | 70 - 75                 |
| 06     | Iron                 | 10%                     | 5%                      | 4 %                     |
| 07     | Moisture Content     | 12%                     | 12%                     | 12%                     |
| 08     | Uni Efficient        | 2.0 Or Less             | 2.0 Or Less             | 2.0 Or Less             |
| 09     | Ignition Temperature | 2.0 Or Less             | 330-375'c               | 330-375'c               |
| 10     | HP                   | 9                       | 9.2                     | 10 – 11                 |

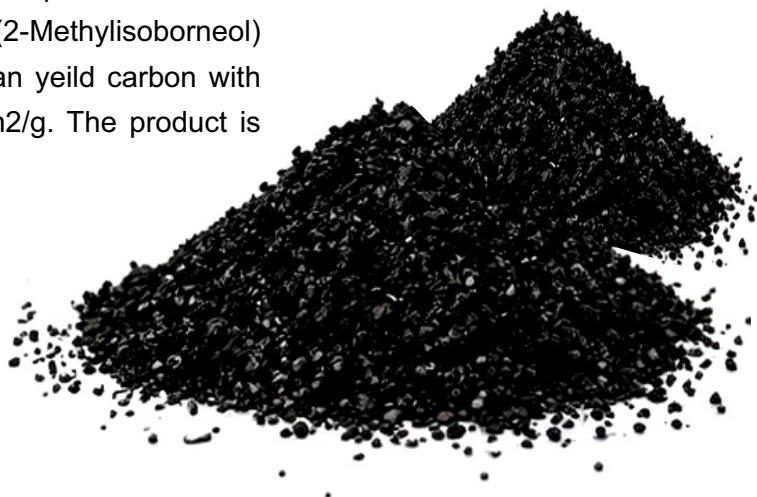


# WOOD BASED ACTIVATED CARBON

- Wood based activated carbon is produced from selected types of wood and sawdust. This type of carbon is produced by either steam or phosphoric acid activation. Most pores in wood based carbon are in the meso and macro pore region which is ideal for decentralization of liquids and water. Wood base carbon is primarily used in surface water and wastewater filters to remove organic impurities and to effectively remove larger molecular structures like MIB (2-Methylisoborneol) and Gemini. Wood base phosphoric acid activation can yield carbon with a very high surface area, ranging from 1500-2500 m<sup>2</sup>/g. The product is available in granular, pelletized, or powder forms.

## USES :

- PORTABLE WATER PURIFICATION
- SURFACE AND WASTEWATER TREATMENT
- FOOD AND BEVERAGE DECOLORIZATION
- PHARMACEUTICAL INDUSTRY
- PURIFICATION AND DECOLORIZATION OF EDIBLE OIL



## FEATURES :

| APPERANCE     | BLACK GRANULES                             |
|---------------|--------------------------------------------|
| PARTICAL SIZE | 4/8, 4/10, 8/16, 12/30, 8/30, 16/30, 30/80 |

## SPECIFICATION OF ACTIVATED CARBON WOOD BASED

|                                                   |                  |                  |                  |                  |                   |
|---------------------------------------------------|------------------|------------------|------------------|------------------|-------------------|
| [+8 Mesh (+2.36 mm)]                              | 5% MAX           | 5% MAX           | 5% MAX           | 5% MAX           | 5% MAX            |
| [-20 Mesh ( -0.850 mm)]                           | 5% MAX           | 5% MAX           | 5% MAX           | 5% MAX           | 5% MAX            |
| IODINE<br>ABSORBTION                              | 450<br>mg/gm± 25 | 600<br>mg/gm± 25 | 800<br>mg/gm± 25 | 900<br>mg/gm± 25 | 1000<br>mg/gm± 25 |
| PH                                                | 9 to 11          | 9 to 11          | 9 to 11          | 9 to 11          | 9 to 11           |
| MOISSTURE                                         | 5% MAX           | 5% MAX           | 5% MAX           | 5% MAX           | 5% MAX            |
| TOTAL SURFACE AREA                                | 450              | 600              | 800              | 900              | 1000              |
| Apparent Density in<br>Kg/m <sup>3</sup> (Minim.) | 0.55             | 0.53             | 0.51             | 0.5              | 0.49              |
| BALL PAN                                          | 90% Min          | 85% Min          | 80% Min          | 80% Min          | 70% Min           |
| ASH CONTENT                                       | 5% Max           | 5% Max           | 5% Max           | 5% Max           | 5% Max            |



## **GRANULAR ACTIVATED CARBON (GAC)**

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- Granular Activated Carbon (GAC) is made from high quality raw material, such as coal, wood, and coconut shell. The adsorption capacity of granular activated carbon makes it ideal for removing a variety of contaminants from water, air, liquids, and gases to improve taste, odor, and color.
- Typical GAC applications are municipal and environmental water treatment, waste gas treatment, mercury removal in industrial gasses, food and beverage, metal recovery, and even medicinal use.
- Additionally, various particle sizes of GAC is optimal for use in vapor and liquid adsorption applications. Our coconut shell based activated carbon has a higher percentage of micro-pores, which makes it highly effective for the filtration of small organic structures, recovery of precious metals and reduction of disinfection byproducts in potable water.
- Our wood based activated carbon has more macro-pores structure making them better for DE-colorization of liquids and removal of larger molecular structures. For general filtration purposes, our coal based activated carbon, with its intermediate pore structure, would be the best option.

## **POWDERED ACTIVATED CARBON (PAC)**

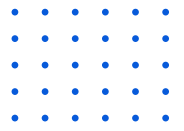
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- Powdered Activated Carbon (PAC) is similar to Granular Activated Carbon (GAC) as it is made from high quality coal, wood or coconut shell raw material.
- PAC is typically considered to have particles less than U.S standard 80 mesh size, which makes it ideal for water treatment.
- our PAC is a reliable, economical water treatment option for taste and odor control and removal of organic compounds. The use of PAC is beneficial economically and environmentally, since it reduces operating costs, produces minimal waste sludge, allows for the conservation of resources, and provides superior water quality.

## **PELLETIZED ACTIVATED CARBON**

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- Our Pelletized Activated Carbon is produced from coal, wood, and coconut shell by high temperature steam activation and manufactured with suitable binders under stringent quality control.
- The pelletized carbon has a low ash content, large surface area, high mechanical strength, extended pore volume, and chemical stability. These characteristics make it ideal for many vapor phase applications.
- The cylindrical uniformity of its shape makes it particularly useful in applications where there is a likely hood of a low-pressure drop over granular activated carbon.
- The adsorption capacity of pelletized carbon makes it ideal for removing a variety of contaminants from air and gas streams, the recovery of solvents, and for evaporation emissions controls.



## **APPLICATION OF GAC, PAC**

- \* AIR & GAS TREATMENT,
- \* AIR PURIFICATION - VOC REMOVAL,
- \* GAS PURIFICATION, WATER FILTER CARTRIDGES,
- \* POINT OF ENTRY (POU) FILTERS,
- \* POINT OF ENTRY (POE) FILTERS,
- \* PHARMACEUTICALS,
- \* REMOVAL OF COLOR COMPOUNDS,
- \* REMOVAL OF PROTEINS,
- \* GOLD RECOVERY, FOOD & BEVERAGES, BEER, COLOURANT.





# MAHAVIR CARBON



Powering a cleaner world with the power of carbon

Group of Mahavir Industries

**GET IN TOUCH**



## FACTORY ADDRESS

C-1/58, G.I.D.C., Estate Vatva,  
Ahmedabad 382445, Gujarat (Ind).



## REGISTERED OFFICE

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