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Activated Carbon Company

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ACTIVATED CARBON

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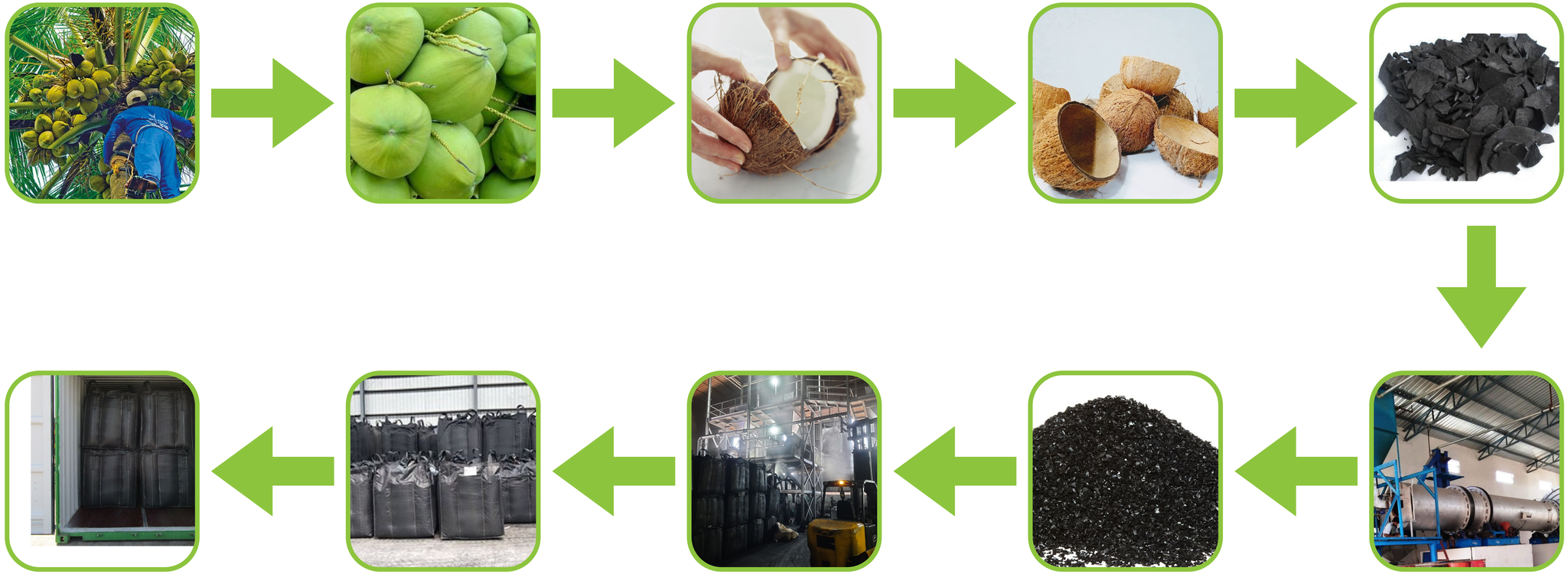
What is mean by coconut shell activated carbon?

Coconut shell activated carbon is an activated carbon made from the shells of coconuts. It has a large internal surface area and a high degree of porosity, making it a highly effective adsorbent for the removal of a variety of organic and inorganic compounds from liquids and gases. It is used in a wide range of applications, including water treatment, air purification, and odor control.

A look at activated carbon?

Coconut shell activated carbon has become an important product for various industries due to its high porosity, excellent adsorption properties, and cost-effectiveness. It is an effective adsorbent for heavy metals, organic contaminants, and other impurities in water and air. Its unique ability to adsorb a wide range of pollutants has made it a preferred choice over other forms of activated carbon in many industries.Coconut shell activated carbon is made from the shells of coconuts. The shells are first dried, milled and then treated with steam and/or chemicals to activate it. The activation process opens up the carbon's pores, increasing its surface area and expanding its capacity to adsorb pollutants. The activated carbon is then further processed to produce different sizes, shapes, and grades of activated carbon.The high porosity of coconut shell activated carbon is one of the primary reasons for its popularity. It has a high surface area to volume ratio, which increases its adsorption capacity. This means it can adsorb more pollutants than other forms of activated carbon. Additionally, its large pore size gives it the ability to adsorb a wide range of pollutants, including a variety of organic contaminants, heavy metals, and other impurities

PROCESS OF
Activated Carbon



AQUA SERIES - GAQ

Activated carbon is often used in drinking water to remove impurities and contaminants such as chlorine, lead, and volatile organic compounds (VOCs). It also helps reduce bad odors and tastes in the water.

Color	Black Granules					
Particle Size	8X16, 8X20, 8X30, 12X30, 12X40, 18X40					
Iodine Value (Minimum)	950	1000	1100	1150	1300	ASTM D4607
CTC Value in % (Minimum)	45	50	55	60	75	ASTM D3467
Apparent Density in Kg/m3 (Minim.)	540	530	510	490	430	ASTM D2854
Surface Area	NA	NA	NA	NA	NA	NA
Ball Pan Hardness	98% Min.	98% Min.	98% Min.	98% Min.	95% Min.	ASTM D3802
Moisture	5% Max.	5% Max.	5% Max.	5% Max.	5% Max.	ASTM D2867
Ash	3% Max.	3% Max.	3% Max.	3% Max.	3% Max.	ASTM D2866
PH	9 – 11	9 – 11	9 – 11	9 – 11	9 – 11	ASTM D3838

EFFLUENT TREATMENT - PET

Activated carbon is a widely used material in factories and wastewater treatment, as it has many important properties that make it ideal for a variety of applications. Activated carbon is highly porous, allowing it to efficiently adsorb and filter out many different pollutants from wastewater and industrial effluents. Activated carbon can also be used to remove odors, coloring and oils from wastewater, as well as to remove heavy metals, organic compounds, and other contaminants. Activated carbon is used in a wide range of industries, including water purification, food and beverage, pharmaceuticals, air purification, chemical processing, mining, industrial manufacturing, and more.

Color	Black Granules					
Particle Size	8X16, 8X20, 8X30, 12X30, 12X40, 18X40					
Iodine Value (Minimum)	950	1000	1100	1150	1300	ASTM D4607
CTC Value in % (Minimum)	45	50	55	60	75	ASTM D3467
Apparent Density in Kg/m3 (Minim.)	540	530	510	490	430	ASTM D2854
Surface Area	NA	NA	NA	NA	NA	NA
Ball Pan Hardness	98% Min.	98% Min.	98% Min.	98% Min.	95% Min.	ASTM D3802
Moisture	5% Max.	5% Max.	5% Max.	5% Max.	5% Max.	ASTM D2867
Ash	3% Max.	3% Max.	3% Max.	3% Max.	3% Max.	ASTM D2866
PH	9 – 11	9 – 11	9 – 11	9 – 11	9 – 11	ASTM D3838

GOLD RECOVERY - GAU

Activated carbon is used in the gold recovery process to adsorb gold from a solution. It is used to adsorb dissolved gold from gold leaching liquids, to isolate almost pure gold from other dissolved metals. Activated carbon is commonly used to recover gold from cyanide solutions. The process is known as carbon-in-pulp (CIP). The first step is to mix the cyanide solution containing the gold with activated carbon particles. The gold adheres to the activated carbon, which is then removed from the solution. The loaded activated carbon is then separated from the solution and treated with a hot caustic solution. The gold is then recovered from the solution by electrolysis, smelting, or chemical precipitation.

Color	Black Granules / Gold Carbon					
Particle Size	6X12, 8X16					
Iodine Value (Minimum)	950	1000	1100	1150	1300	ASTM D4607
CTC Value in % (Minimum)	45	50	55	60	75	ASTM D3467
Apparent Density in Kg/m3 (Minim.)	530	520	500	480	430	ASTM D2854
Surface Area	NA	NA	NA	NA	NA	NA
Ball Pan Hardness	98% Min.	98% Min.	98% Min.	98% Min.	98% Min.	ASTM D3802
Moisture	5% Max.	5% Max.	5% Max.	5% Max.	5% Max.	ASTM D2867
Ash	3% Max.	3% Max.	3% Max.	3% Max.	3% Max.	ASTM D2866
PH	9 – 11	9 – 11	9 – 11	9 – 11	9 – 11	ASTM D3838

VAPOR PHASE SERIES - GVP

Activated carbon is used in the gold recovery process to adsorb gold from a solution. It is used to adsorb dissolved gold from gold leaching liquids, to isolate almost pure gold from other dissolved metals. Activated carbon is commonly used to recover gold from cyanide solutions. The process is known as carbon-in-pulp (CIP). The first step is to mix the cyanide solution containing the gold with activated carbon particles. The gold adheres to the activated carbon, which is then removed from the solution. The loaded activated carbon is then separated from the solution and treated with a hot caustic solution. The gold is then recovered from the solution by electrolysis, smelting, or chemical precipitation.

Color	Black Granules					
Particle Size	4X8, 6X16					
Iodine Value (Minimum)	900 Min.	950 Min.	1050 Min.	1100 Min.	1250 Min.	ASTM D4607
CTC Value in % (Minimum)	45	50	55	60	75	ASTM D3467
Apparent Density in Kg/m3 (Minim.)	510	490	480	460	430	ASTM D2854
Surface Area	NA	NA	NA	NA	NA	NA
Ball Pan Hardness	98% Min.	98% Min.	98% Min.	98% Min.	95% Min.	ASTM D3802
Moisture	5% Max.	5% Max.	5% Max.	5% Max.	5% Max.	ASTM D2867
Ash	3% Max.	3% Max.	3% Max.	3% Max.	3% Max.	ASTM D2866
PH	9 – 11	9 – 11	9 – 11	9 – 11	9 – 11	ASTM D3838

FILTER SERIES - GFL

The particle size of GFL filter series carbon has been selected to give maximum adsorption rates and reasonable pressure drop characteristics with liquors of relatively low viscosity.
It is made from a superior quality activated carbon with low ash, sulphur, and phosphorous content. It has a large surface area, high pore volume, high mechanical hardness and chemical stability, longer operating life, and it is easy to regenerate.

Color	Black Granules					
Particle Size	20X50, 20X60, 20X70					
Iodine Value (Minimum)	950 Min.	1000 Min.	1100 Min.	1150 Min.	1300 Min.	ASTM D4607
CTC Value in % (Minimum)	45	50	55	60	75	ASTM D3467
Apparent Density in Kg/m3 (Minim.)	540	530	520	480	450	ASTM D2854
Surface Area	NA	NA	NA	NA	NA	NA
Ball Pan Hardness	98% Min.	98% Min.	98% Min.	98% Min.	95% Min.	ASTM D3802
Moisture	5% Max.	5% Max.	5% Max.	5% Max.	5% Max.	ASTM D2867
Ash	4% Max.	4% Max.	4% Max.	4% Max.	4% Max.	ASTM D2866
PH	9 – 11	9 – 11	9 – 11	9 – 11	9 – 11	ASTM D3838

CIGARETTE FILTER SERIES - GCF

Activated carbon is used in cigarettes to filter out toxins, such as tar and nicotine, from the smoke. The activated carbon absorbs these compounds from the smoke, making the smoke less harmful to inhale. Activated carbon is also used to alter the flavor of the smoke, making it more appealing to the smoker.Activated carbon is used in the production of cigarettes to filter out certain chemicals, such as tar and smoke, from the smoke inhaled during smoking. The activated carbon helps to reduce the levels of these chemicals, making the smoke less hazardous to the smoker.

Color	Black Granules					
Particle Size	35X60, 35X70, 35X80					
Iodine Value (Minimum)	950 Min.	1000 Min.	1100 Min.	1150 Min.	1300 Min.	ASTM D4607
CTC Value in % (Minimum)	45	50	55	60	75	ASTM D3467
Apparent Density in Kg/m3 (Minim.)	540	520	500	480	430	ASTM D2854
Surface Area	NA	NA	NA	NA	NA	NA
Ball Pan Hardness	98% Min.	98% Min.	98% Min.	98% Min.	95% Min.	ASTM D3802
Moisture	5% Max.	5% Max.	5% Max.	5% Max.	5% Max.	ASTM D2867
Ash	5% Max.	5% Max.	5% Max.	5% Max.	5% Max.	ASTM D2866
PH	9 – 11	9 – 11	9 – 11	9 – 11	9 – 11	ASTM D3838

- 25kg, 50kg laminated PP bags with inner liner or multi walled kraftpaper sacks as per the specification of our clients.
- Exports 500 kg Jumbo bags (super sacks) are palletized and shrink wrapped.
- 25kg, 50kg bags can also be palletized and shrink wrapped for exports.
- Labeling-As per customer requirements.

GLOBAL CUSTOMERS

REGISTERED OFFICE & FACTORY

2/66B, Bavadi Street,
Unniyur, Thottiyam,
Thiruchirappalli,
Tamilnadu, India - 621207

WAREHOUSE & SALES OFFICE

93/A, S.S. Street Market Street,
Near Achudan Hospital,
Tuticorin, Tamilnadu
India - 628001.

Port - INTUT1 - Tuticorin Sea 5 km only

Port - INTUT6 - Tuticorin ICD 5 km only

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Facebook - https://www.facebook.com/profile.php?id=100083456072282

Skpe - https://join.skype.com/invite/xRSt09RrtbLq