

eco fresh carbon

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ACTIVATED CARBON COMPANY



ACTIVATED CARBON

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eco fresh carbon

Govt of India Recognized One Star Export House



Eco Fresh Carbon is one of the prime manufacturer and exporter of Coconut shell based steam activated carbon , Our Company Started in the year 2008 , and have gone through so many researches in the field of activated Carbon.

We achieved upto the level of 100 CTC Super Carbon , and Supplied to Our Various Customers across the globe . we concentrate more on Quality Side as well as timely delivery. So we follow the motto of “RIGHT QUALITY AT RIGHT TIME”.

Our Products are high porous and high activity ,activated carbon manufactured by Steam process of activation from chosen Coconut Shell charcoal. Our well Equipped QC department has various latest testing Equipments as per ASTM norms & we strictly follow ASTM Procedures for all testing.

Our world wide Customers are fully Satisfied with our high quality activated carbon with competitive price, as well as a strong bond is linked between us as we value their feedback.



a sunrise creative

COCONUT SHELL ACTIVATED CARBON PROCESS



ACHIEVEMENTS



HONOR QUALIFICATIONS

SPECIFICATIONS & APPLICATIONS

WATER TREATMENT

Activated Carbon is widely used in the treatment of municipal, industrial waste water, sewage water and process liquids which contain a wide range of organic and inorganic pollutants, activated carbon adsorbs these pollutants from the waste in a liquid phase, acting as the optimum purification solution.



SPECIFICATION DETAILS OF COCONUT SHELL ACTIVATED CARBON FOR WATER TREATMENT

APPEARANCE	BLACK GRANULES						
PARTICLE SIZE	6 X 16, 8 X 12 , 8 X16, 8 X 20, 8 X 30 , 12 X 30, 12 X 40 16 X 32, 16 X 40,18 X 40, 35 X 70, 80 X 325,						
IODINE ADSORPTION	600 IV	700 IV	800 IV	900 IV	1000 IV	1100 IV	1200 IV
PH	9 TO 11	9 TO 11	9 TO 11	9 TO 11	9 TO 11	9 TO 11	9 TO 11
MOISTURE	5%	5%	5%	5%	5%	5%	5%
APPARENT DENSITY	0.55 ±0.05	0.53±0.05	0.52±0.05	0.51±0.05	0.48±0.05	0.46±0.05	0.45±0.05
BALL PAN HARDNESS	98	98	98	98	98	98	98
ASH CONTENT	5% MAX	5% MAX	5% MAX	5% MAX	5% MAX	5% MAX	5% MAX

SPECIFICATION DETAILS OF COCONUT SHELL ACTIVATED CARBON FOR ACID WASH

APPEARANCE	BLACK GRANULES-ACID WASH						
PARTICLE SIZE	8 X 16, 8 X 30, 12 X 30 ,12 X 40 /AW						
IODINE ADSORPTION	600IV	700 IV	800IV	900 IV	1000 IV	1100 IV	1200 IV
PH	6 TO 8	6 TO 8	6 TO 8	6 TO 8	6 TO 8	6 TO 8	6 TO 8
MOISTURE	5%	5%	5%	5%	5%	5%	5%
APPARENT DENSITY	0.55 ±0.05	0.53±0.05	0.52±0.05	0.51±0.05	0.48±0.05	0.46±0.05	0.44±0.05
BALL PAN HARDNESS	98	98	98	98	98	98	98
ASH CONTENT	1%MAX	1% MAX	1% MAX	1% MAX	1% MAX	1% MAX	1% MAX

AIR AND GAS TREATMENT

Activated Carbon is widely used in the treatment of air and gas in order to capture toxic air pollutants (primarily volatile organics compounds, or voc) from petrochemical plants, landfill sites, manufacturing operations, and chemical processing facilities. Selective adsorption is achieved by impregnation of activated carbon with certain chemicals.



SPECIFICATION DETAILS OF COCONUT SHELL ACTIVATED CARBON FOR ODOUR CONTROL

APPEARANCE	BLACK GRANULES	
PARTICLE SIZE	4 X 8, 6 X 16	
CTC	60	60
IODINE ADSORPTION	1100 IV	1150 IV
PH	9 TO 11	9 TO 11
MOISTURE	5%	5%
APPARENT DENSITY	0.45±0.05	0.45±0.05
BALL PAN HARDNESS	98	98
ASH CONTENT	5% MAX	5% MAX

GOLD RECOVERY

Highly Activated Carbon is used in the dissolved gold recovery process, either by introducing it directly into the CIL (carbon-in-leach) tanks or into separate CIP (carbon-in-pulp) tanks after leaching. The activated carbon adsorbs the dissolved gold from the leach slurry thereby concentrating it onto a smaller mass of solids. The carbon is then separated from the slurry by screening and subjected to further treatment to recover the adsorbed gold.



SPECIFICATION DETAILS OF COCONUT SHELL ACTIVATED CARBON FOR GOLD PURIFICATION

APPEARANCE	BLACK GRANULES GOLD CARBON		
PARTICLE SIZE	6 X 12,8 X 16/GOLD CARBON		
CTC	50	55	60
IODINE ADSORPTION	1000 IV	1050 IV	1100 IV
PH	9 TO 11	9 TO 11	9 TO 11
MOISTURE	5%	5%	5%
APPARENT DENSITY	0.48±0.05	0.47±0.05	0.46±0.05
BALL PAN HARDNESS	98	98	98
PLATELETS CONTENT	7% MAX	7% MAX	7% MAX
ATTRITION LOSS	2% MAX	2% MAX	2% MAX
ASH CONTENT	5% MAX	5% MAX	5% MAX

SUPER ACTIVATED CARBON

The Super Activated Carbon is made from a selection of high temperature coconut shell charcoal through special carbonization, activation, grinding and classification.

Therefore, the Super Carbon possesses the following features:

- Powerful specific surface area (ssa>1000m²/gm);
- Electrical conductivity (0.4ω.Cm); high activation;
- Easy to disperse;
- Powerful iodine adsorption (absorption capability >1000mgm/gm);
- Methylene blue number >240mgm/gm;
- Negative-ions concentration 7150/cm³;
- Far infra red emission rate 91%.
- Iodine Number 1600- 1800mgm/gm.



SPECIFICATION DETAILS OF COCONUT SHELL ACTIVATED CARBON FOR GOLD PURIFICATION

APPEARANCE	BLACK GRANULES SUPER CARBON						
PARTICLE SIZE	30 X 60,35 X 70,10 X 20, 20 X 40,50 X 100,80 X 325						
CTC	80	85	90	95	100	105	110
IODINE ADSORPTION	1300 IV	1350 IV	1400 IV	1450 IV	1500 IV	1550 IV	1600 IV
PH	9 TO 11	9 TO 11	9 TO 11	9 TO 11	9 TO 11	9 TO 11	9 TO 11
MOISTURE	5%	5%	5%	5%	5%	5%	5%
APPARENT DENSITY	0.43±0.05	0.43±0.05	0.42±0.03	0.42±0.03	0.41±0.03	0.41±0.03	0.40±0.03
BALL PAN HARDNESS	98	98	98	98	96-97	96-97	96-97
ASH CONTENT	5% MAX	5% MAX	5% MAX	5% MAX	5% MAX	5% MAX	5% MAX

CIGARETTE FILTER

When the cigarette burns, thousands of chemical substances are generated, and these are distributed between the gas phase and the particles which constitute the smoke aerosol. Activated Carbon when used in a filter can selectively remove a number of the vapour phase compounds to varying degrees of efficiency.



SPECIFICATION DETAILS OF COCONUT SHELL ACTIVATED CARBON FOR CIGARETTE FILTER

APPEARANCE	BLACK GRANULES		
PARTICLE SIZE	30 X 60, 30 X 70, 20 X 70, 35 X 70		
CTC	55	60	65
IODINE ADSORPTION	1050 IV	1100 IV	1150 IV
PH	9 TO 11	9 TO 11	9 TO 11
MOISTURE	5%	5%	5%
APPARENT DENSITY	0.45±0.05	0.45±0.05	0.45±0.05
BALL PAN HARDNESS	98	98	98
ASH CONTENT	5% MAX	5% MAX	5% MAX

PACKAGING & SHIPMENT

- 25kg-HDPE BAGS
- 500kg-HDPE jumbo Bags with safety factor 5.1
- WOODEN PALLET with heat treatment/ISPM 15 METHOD
- Palletisation
- Jumbo Bags-Two Bags fastened to a single pallet with four straps.
- 25kg/50kg-500 kgs Per pallet with shrink wrapping.
- Labeling-As per customer requirements.

SHIPMENT



PALLETISATION



Product	Type	Iodine Value	Apparent Density	Particle Size-Mesh
ECO FRESH G 600	Coconut base	600 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH G 800	Coconut base	800 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH G 900	Coconut base	900 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH G 1000	Coconut base	1000 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH G 1100	Coconut base	1100 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH G 1200	Coconut base	1200 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40, 20x40, 20x60, 30x60, 40x140, 50x100, 40x80, 80 x 200, 80 x 325 - US Mesh
ECO FRESH G 1300	Coconut base	1300 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40, 20x40, 20x60, 30x60, 40x140, 50x100, 40x80, 80 x 200, 80 x 325 - US Mesh
ECO FRESH G 1400	Coconut base	1400 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40, 20x40, 20x60, 30x60, 40x140, 50x100, 40x80, 80 x 200, 80 x 325 - US Mesh
ECO FRESH G 1500	Coconut base	1500 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40, 20x40, 20x60, 30x60, 40x140, 50x100, 40x80, 80 x 200, 80 x 325 - US Mesh
ECO FRESH G 1600	Coconut base	1600 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40, 20x40, 20x60, 30x60, 40x140, 50x100, 40x80, 80 x 200, 80 x 325 - US Mesh
ECO FRESH G 1700	Coconut base	1700 IV	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40, 20x40, 20x60, 30x60, 40x140, 50x100, 40x80, 80 x 200, 80 x 325 - US Mesh

Product	Type	Iodine Value / pH	Apparent Density	Particle Size-Mesh
ECO FRESH AW 600	Coconut base	600 IV / 5-7	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH AW 800	Coconut base	800 IV / 5-7	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH AW 900	Coconut base	900 IV / 5-7	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH AW 1000	Coconut base	1000 IV / 5-7	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH AW 1100	Coconut base	1100 IV / 5-7	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh
ECO FRESH AW 1200	Coconut base	1200 IV / 4-7	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 - US Mesh
ECO FRESH AW 1300	Coconut base	1300 IV / 4-7	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 - US Mesh
ECO FRESH AW 1400	Coconut base	1400 IV / 4-7	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 - US Mesh
ECO FRESH AW 1500	Coconut base	1500 IV / 4-7	450-550	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 - US Mesh

Product	Type	Iodine Value / MBV	Apparent Density	Particle Size-Mesh
ECO FRESH PAC 1000	Coconut base/ Acid Wash	1000 IV / 220	400-550	30x100, 40x140, 50x200, 60x200, 60x325, 80x325, 60x400 and - 200 US Mesh
ECO FRESH PAC 1100	Coconut base/ Acid Wash	1100 IV / 220	450-550	30x100, 40x140, 50x200, 60x200, 60x325, 80x325, 60x400 and - 200 US Mesh

Product	Type	Iodine Value	Loading Chemical	Particle Size-Mesh
ECO FRESH IMC 1000	Coconut base /Acid Wash	900-1100 IV	KI + KOH Phosphoric Acid NaOH	4x8, 6x12, 6x16, 8x16, 8x30, 12x40 & 20x60 - US Mesh

Sieve Number	1/4"	4	6	7	8	10	12	14	16	18	20	25	30	35	40	50	60	70	80	100	200	325
mm	6.3	4.75	3.35	2.80	2.36	2	1.7	1.4	1.18	1	0.85	0.71	0.60	0.5	0.425	0.3	0.25	0.212	0.180	0.150	0.075	0.045

Eco Fresh carbons are commonly used in many domestic and industrial applications.

Vapour Phase :

Product	Industry	Description	Typical Use
ECO FRESH G900 - 1000	Solvent recovery	Recovery of solvents to optimize economic processes and control vapour emissions	Acetate fibre, pharma (Metheline chloride), flim coating, magnetic tape, etc...
	Carbon di Oxide	Purification of CO2 from fermentation processes	Absorption of alcohols, amines, mercaptans
ECO FRESH -IMC	Industrial respirators	Absorption of organic vapours	To meet EN14387 standards- Type A respirations
	Waste disposal	Disposal of domestic, chemical and clinical wastes by high temperature incineration	Removal of heavy metals and dioxins from flue gases
ECOFRESH -PAC	Cigarettes	Incorporation as powder in filter tips	Extraction of some harmful elements of cigarette smoke and taste/flavour control
ECOFRESH -AW	Air conditioning and refrigerating	Heating, ventilation and air conditioning	Airports, motor vehicle offices and fume cupboards
ECOFRESH -IMC	Composite fibres	Impregnation of powdered carbon into foam/fibre substance	Air treatment, face masks, respirators

Liquid Phase :

Product	Industry	Description	Typical Use
ECO FRESH G900 - 1000	Potable water	GAC & PAC-AW	Removal of dissolved organic contaminants, control of taste and odour problems
	Soft drinks & Breweries	Potable water treatment and chlorine sterilization	Chlorine removal, THM removal and absorption of organic contaminants
ECO FRESH GOLD CARB	Gold recovery	Operation of carbon in leach and carbon in pulp	Recovery of gold from tailings and when dissolved in sodium cyanide
ECOFRESH -AW	Petrochemical	Recycling of steam condensate for feed water	Removal of oil and hydro carbon heavy metals from mother liquid
ECOFRESH -G800	Ground water & Effluent treatment	Industrial contamination of ground water reserves and wastewater treatment	Reduction of TOX, TOC, BOD COD and absorbable organic halogens
ECOFRESH -AW	Swimming pools	Ozone injections to remove organic pollutants	Removal of residual ozone and control of chloramines

Quality Parameters:

SL.NO	PARAMETERS	UNIT	TEST METHOD
1.	Particle Size	%	ASTM D 2862
2.	Apparent Density	gm/lit	ASTM D 2854
3.	Moisture	%	ASTM D 2867
4.	CTC Adsorption Activity	%	ASTM D 3467
5.	Ash Content	%	ASTM D 2866
6.	Hardness Number	-	ASTM D 3802
7.	Iodine Number	mgm/ gm	ASTM D 4607
8.	pH Value	%	ASTM D 3838
9.	Attrition Loss	%	ASTM D 4058
10.	Benzene Adsorption	%	JIS K 1474-1991

SL.NO	PARAMETERS	UNIT	TEST METHOD
11.	Butane Activity	%	ASTM D 5742
12.	Dust Content	Number	Speakman Method
13.	Chlorides	Ppm	JIS Method
14.	Iron Content	Ppm	JIS K 1474-1991
15.	Mean Particle Diameter	mm	ASTM D 2862
16.	Platelet	%	JIS Method
17.	Methylene Blue Value	mgm/ gm	IS 180:77
18.	Volatile Matter	%	ASTM D 5832
19.	Water Soluble	%	ASTM D 5029
20.	Abrasion loss test	%	JIS Method

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GLOBAL CUSTOMERS



GLOBAL CUSTOMERS

ASIA COUNTRIES

- SOUTH KOREA
- TAIWAN
- SINGAPORE
- JAPAN
- CHINA
- RUSSIA
- TURKEY
- PHILIPINES
- THAILAND
- KAZAKHSTHAN
- DUBAI
- QATAR
- ISRAEL
- SAUDI ARABIA
- MALAYASIA
- SRILANKA

NORTH AMERICA

- USA

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- FRANCE
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- BELGIUM
- GERMANY
- FINLAND
- CZECH REPUBLIC
- NETHERLAND
- UNITED KINGDOM

AFRICAN COUNTRIES

- SOUTH AFRICA
- TANZANIA

SOUTH AMERICA

- PERU



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