



GATHA GLOBAL TRADERS
The Passport for Your Product

COCONUT SHELL-BASED
ACTIVATED CARBON PROVIDER
FROM THE LAND OF COCONUTS



 www.gathaglobaltraders.com



Welcome Message

Dear Valued Partners,

Preserving the natural ecosystem will remain a topic of discussion unless we recognize its importance as a global mission and integrate it into our daily lives. Gatha Global Traders is proud to support this mission by offering products made from one of nature's most sustainable and eco-friendly resources: COCONUT.

Our manufacturing partners, located in southern India, play a vital role in achieving this mission. From high-grade Coconut Shell-based Activated Carbon to Charcoal Briquettes, we offer a range of coconut charcoal-based products suitable for various applications.

Our global reach allows us to share these eco-friendly products with markets around the world, and we are dedicated to maintaining the highest standards of quality and service. Each product is a testament to our dedication to environmental stewardship and our passion for providing sustainable solutions.

Thank you for your continued trust and partnership. Together, we can make a meaningful impact and pave the way for a greener future.

Rahul Nema (Proprietor)
MSc Sustainable Energy Technology
Technical University of Eindhoven,
The Netherlands



GATHA GLOBAL TRADERS
The Passport for Your Product



Product Portfolio

Our product portfolio caters to a diverse range of industrial sectors, including gold mining, oil and gas, water treatment, food and beverage processing, pharmaceutical manufacturing, and the cosmetics industry.

Product Range

We offer a wide range of mesh sizes:

3x6	4x8	6x12	8x16
8x30	12x30	12x40	20x40
20x50	30x60	35x70	50x100

Also powder grades, acid-washed and water-washed carbons – different types of impregnated carbons, and pellet carbon as well.

Specification Range

Property	Values
Iodine Value Range (mg/g)	800–1300
Surface Area (m ² /g)	850–1350
Apparent Density (g/cm ³)	0.40–0.55
CTC Activity	40–80
Ash Content (%)	> 5
Moisture Content (%)	> 5
Hardness (%)	95–99
pH	6–11

Activated Carbon Grades



Granular Activated Carbon (GAC)

It is ideal for removing a variety of contaminants from water, air, liquids, and gases.



Powdered Activated Carbon (PAC)

It is ideal for removing a variety of contaminants from water, air, liquids, and gases.



Pelletized Activated Carbon (PAC)

It is perfect for eliminating a wide range of contaminants from air and gas streams.

GRANULAR COCONUT SHELL-BASED ACTIVATED CARBON

Parameter	Specification	Specification	Specification
Category	Regular	Water Washed	Acid Washed
Mesh Size	3x6 / 4x8 / 6x12 / 8x16 / 8x30 / 12x30 / 12x40 / 20x50 / 30x60 / 35x70 / 50x100	3x6 / 4x8 / 6x12 / 8x16 / 8x30 / 12x30 / 12x40 / 20x50 / 30x60 / 35x70 / 50x100	3x6 / 4x8 / 6x12 / 8x16 / 8x30 / 12x30 / 12x40 / 20x50 / 30x60 / 35x70 / 50x100
Iodine Value Range (mg/g)	800 / 850/ 900/ 950/ 1000/ 1050/ 1100/ 1150/ 1200/ 1250/ 1300	800 / 850/ 900/ 950/ 1000/ 1050/ 1100/ 1150/ 1200/ 1250/ 1300	800 / 850/ 900/ 950/ 1000/ 1050/ 1100/ 1150/ 1200/ 1250/ 1300
Surface Area (m ² /g)	800-1350	800-1350	800-1350
CTC (% min)	50 / 55 / 60 / 65 / 70 / 75 / 80	50 / 55 / 60 / 65 / 70 / 75 / 80	50 / 55 / 60 / 65 / 70 / 75 / 80
Apparent Density (g/cm ³)	0.40-0.55	0.40-0.55	0.40-0.55
Ash Content (%)	≤ 5	≤ 3	≤ 1
Moisture Content (%)	≤ 5	≤ 2	≤ 2
Hardness (%)	95 / 96 / 97 / 98 / 99	95 / 96 / 97 / 98 / 99	95 / 96 / 97 / 98 / 99
pH	9-11	8-10	6-8

APPLICATIONS

Granular coconut shell-based activated carbon is used in water treatment to purify drinking and industrial water and in air and gas purification to remove VOCs and odors. It aids in solvent recovery, gold extraction, and food processing, such as sugar decolorization. It's also applied in pharmaceutical purification, environmental remediation, and oil spill cleanup. Additionally, it controls odors in industrial and residential settings.

POWDERED COCONUT SHELL-BASED ACTIVATED CARBON

Parameter	Specification
Appearance	Black Powder
Iodine Number (mg/g)	900 - 1100
Methylene Blue Number (mg/g)	150 - 250
Surface Area (m ² /g)	800 - 1200
Bulk Density (g/cm ³)	0.4 - 0.5
Moisture Content	≤ 5%
Ash Content	≤ 5%
Hardness (Crushing Strength)	≥ 90%
pH	8
Loss on Ignition	≤ 5%

APPLICATIONS

Powdered coconut shell-based activated carbon is widely used in water purification to remove organic contaminants, chlorine, and heavy metals. It is used in air purification systems for adsorbing volatile organic compounds (VOCs) and odors. It plays a key role in decolorization and taste improvement in the food and beverage industry. In pharmaceutical applications, it is used for detoxification and purification. Additionally, it is employed in gold recovery and industrial solvent recovery processes.

PELLETIZED COCONUT SHELL-BASED ACTIVATED CARBON

Property	Specification
Shape	Cylindrical Pellets
Pellet Size	1.5–5 mm (standard)
Bulk Density	0.45–0.55 g/cm ³
Iodine Number	800–1200 mg/g (depending on material and grade)
Surface Area	800–1200 m ² /g
Moisture Content	< 5%
Ash Content	< 5%
Hardness	> 90% (determined by abrasion resistance)
Apparent Density	0.55–0.65 g/cm ³
pH	7–10 (neutral to slightly alkaline)
Particle Distribution	Uniform distribution, minimal fines
Maximum Operating Temperature	900–1000°C (for regeneration)

APPLICATIONS

Pelletized coconut shell-based activated carbon is widely used in water treatment to remove chlorine, organic compounds, and contaminants. It is employed in air purification for odor removal and VOC adsorption. In the food and beverage industry, it is used for decolorization and purification of liquids. It plays a key role in gas phase filtration to remove harmful gases and impurities. Additionally, it is used in solvent recovery and industrial processes to reclaim valuable chemicals.

TECHNICAL SPECIFICATION OF 3X6, 4X8, 6X12 MESH SIZE MATERIAL

Parameter	Specification	Specification	Specification
Mesh Size	3x6 (6.70–3.35 mm)	4x8 (4.75–2.36 mm)	6x12 (3.35–1.70 mm)
Base Material	Coconut shell	Coconut shell	Coconut shell
Iodine Number (mg/g)	800–1000	800–1000	900–1100
Surface Area (m ² /g)	800–1000	800–1000	800–1000
Bulk Density (g/cm ³)	0.45–0.55	0.45–0.55	0.45–0.55
Hardness	≥ 98%	≥ 98%	≥ 98%
Moisture Content	≤ 5%	≤ 5%	≤ 5%
Ash Content	≤ 3%	≤ 3%	≤ 5%
pH	9–11	9–11	9–11

TECHNICAL SPECIFICATION OF 6×12 MESH 55 CTC, 6×12 (ULTRA PREMIUM)

Parameter	Specification	Specification
Mesh Size	+6 (5% max) -12 (2% max)	+6 (2% max) -12 (3% max)
Base Material	Coconut shell	Coconut shell
Surface Area (m ² /g)	1000-1200	1000-1300
Iodine Value Range (mg/g)	1000-1200	1000-1200
Bulk Density (g/cm ³)	0.45-0.55	0.45-0.55
CTC (%min)	55	60
Ash Content (%)	≤ 3%	≤ 2%
Moisture Content (%)	≤ 4%	≤ 3%
R-Value (%)	55	58
K-Value (kg/ton)	30	35
Hardness (%)	99%	98%
pH	9-11	9-11
Platelets	3%	2.7%
Attrition Index	2%	1%

TECHNICAL SPECIFICATION OF 8X16, 8X30, 12X30 MESH SIZE MATERIAL

Parameter	Specification	Specification	Specification
Mesh Size	8x16 (2.36-1.18 mm)	8x30 (2.36-0.60 mm)	12x30 (1.70-0.60 mm)
Base Material	Coconut shell	Coconut shell	Coconut shell
Iodine Number (mg/g)	900-1100	900-1100	900-1100
Surface Area (m ² /g)	1000-1200	900-1100	900-1100
Bulk Density (g/cm ³)	0.45-0.55	0.45-0.55	0.45-0.55
CTC Activity	55	50	50
Hardness	98%	98%	98%
Moisture Content	≤ 5%	≤ 5%	≤ 5%
Ash Content	≤ 3%	≤ 3%	≤ 3%
pH	9-11	9-11	9-11

TECHNICAL SPECIFICATION OF 12X40, 20X40, 20X50 MESH SIZE MATERIAL

Parameter	Specification	Specification	Specification
Mesh Size	12x40 (1.70-0.425 mm)	20x40 (0.85-0.425 mm)	20x50 (0.85-0.30 mm)
Base Material	Coconut shell	Coconut shell	Coconut shell
Iodine Number (mg/g)	900-1100	800-1000	900-1100
Surface Area (m ² /g)	1000-1200	800-1000	900-1200
Bulk Density (g/cm ³)	0.45-0.55	0.45-0.55	0.45-0.55
Hardness	≥ 95%	≥ 95%	≥ 95%
Moisture Content	≤ 5%	≤ 5%	≤ 5%
Ash Content	≤ 3%	≤ 3%	≤ 3%
pH	9-11	9-11	9-11

GENERAL GUIDELINES

CUSTOMIZATION

Our materials and production facilities adhere to international standards. We can supply materials tailored to specific parameters according to client requirements. A Certificate of Analysis (COA) and Material Safety Data Sheet (MSDS) will accompany the consignment.

DELIVERY TERMS

The delivery time is typically 02 Weeks, covering the entire process, including processing, packaging, and inland transportation.

PACKAGING

We offer packaging options in 25 kg double-laminated HDPE bags. Packaging solutions can be tailored to meet specific client requirements.

PRODUCTION CAPACITY

Our production capacity is 700 metric tons per month, with the capability to scale up to 10,000 metric tons per year to meet rising demand.

QUANTITY

Container Size	Weight	Pellet Status
1 x 20'FCL	12-13 MT	With Wooden Pettet Packaging
	16-17 MT	Without Wooden Pettet Packaging
1 x 40'FCL	23-24 MT	With Wooden Pettet Packaging
	27-28 MT	Without Wooden Pettet Packaging

COMPANY INFORMATION

Supplier Name	GATHA GLOBAL TRADERS
Goods and Services Tax Identification Number	23AHAPN8012E1ZW
Importer Exporter Code	AHAPN8012E
Federation of Indian Export Organisations Registration Number	RCMC/FIEO/07781/2024-2025
Registered Office Address	R/10, JDA Plots, Near Kachnar City Gate No. 2, Vijay Nagar, Jabalpur, Madhya Pradesh, India, Pin code - 482002
Phone	+91 94246 02091
Email ID	rahulnema@gathaglobaltraders.com
Webiste	www.gathaglobaltraders.com
Bank Account Details	RECIPIENT NAME: GATHA GLOBAL TRADERS Bank Name: HDFC BANK Account Number: 50200093036091 Swift Code: HDFCINBBXXX Branch Address: No. 636 Main Road, 4, SBI Chowk, Vijay Nagar, Jabalpur, Madhya Pradesh, India, Pin Code: 482001

I hereby certify that the information in this document is accurate and meets the quality standards of our product. Our quality control team has thoroughly reviewed and verified the specifications and related details to ensure compliance with global quality standards and client requirements.



Rahul Nema

RAHUL NEMA
PROPRIETOR
GATHA GLOBAL TRADERS