

◆ **PRODUCT SERIES 04** ◆

COCONUT SHELL *ACTIVATED CARBON*

GAC · PAC · Pelletized · Impregnated

High Adsorption Efficiency | Low Ash | Consistent Export Quality

1100 mg/g

Max Iodine Value

< 5%

Ash Content

4 Types

GAC · PAC · Pelletized · Impregnated

VIJAITA ENTERPRISE

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GRANULAR ACTIVATED CARBON · 01 / 04

Granular Activated Carbon

Coconut Shell GAC — Industry Benchmark Grade

01 / 04

The flagship product. Hard, dense granules with an exceptionally high iodine value and large surface area, ideal for liquid-phase and gas-phase adsorption systems worldwide. Coconut shell GAC is the global gold standard for water purification and precious metal recovery.

Iodine Value	900 – 1100 mg/g
BET Surface Area	950 – 1200 m ² /g
Mesh Sizes Available	4×8 / 8×16 / 8×30 / 12×40
Moisture Content	< 5%
Ash Content	< 5%
Hardness (Ball-Pan)	≥ 95%
pH (Slurry)	6 – 8
Bulk Density	450 – 550 g/L
Pore Volume	0.6 – 0.8 cm ³ /g
Dust Content	< 0.5%
Appearance	Black granules, odourless
Packing Options	25 kg bags / 500–1000 kg FIBC Jumbo
Origin	Coconut Shell – South India

APPLICATIONS

Drinking Water Purification · Gold Recovery (CIL/CIP) · Industrial Effluent ·
Dechlorination · Solvent Recovery

POWDERED ACTIVATED CARBON · 02 / 04

Powdered Activated Carbon

Coconut Shell PAC — Fine Particle Grade

02 / 04

Ultra-fine powder with a massive contact surface for rapid adsorption in batch-dosing systems. Preferred for pharmaceutical, food-grade, and emergency water treatment applications where fast response is critical.

Iodine Value	800 – 1050 mg/g
BET Surface Area	900 – 1100 m ² /g
Mesh Size	200 mesh (74 µm) / 325 mesh (44 µm)
Moisture Content	< 10%
Ash Content	< 5%

pH (Slurry)	6 – 8
Bulk Density	300 – 450 g/L
Methylene Blue Value	≥ 180 mg/g
Particle Size D90	≤ 44 µm or ≤ 74 µm
Appearance	Black fine powder, odourless
Packing Options	25 kg multi-wall paper / PE bags
Origin	Coconut Shell – South India

APPLICATIONS

Municipal Water Treatment · Pharmaceutical Processing · Food & Beverage
Decolourisation · Taste & Odour Removal · Chemical Purification

PELLETIZED ACTIVATED CARBON · 03 / 04

Pelletized Activated Carbon

Coconut Shell Extruded Pellets — Gas Phase Grade

03 / 04

Precision-extruded cylindrical pellets for gas-phase adsorption applications. Superior crushing strength minimises fines generation and pressure drop across packed beds, extending operational cycles and reducing maintenance.

Iodine Value	850 – 1000 mg/g
BET Surface Area	900 – 1100 m ² /g
Pellet Diameter	1.5 mm / 2.0 mm / 3.0 mm / 4.0 mm
Length	3 – 10 mm (variable)
Moisture Content	< 5%
Ash Content	< 5%
Crushing Strength	≥ 90 N/cm (radial)
Dust Content	< 0.2%
Bulk Density	430 – 510 g/L
pH (Slurry)	6 – 8
Appearance	Black cylindrical pellets, odourless
Packing Options	25 kg bags / 500 kg FIBC Jumbo
Origin	Coconut Shell – South India

APPLICATIONS

Air Purification Systems · VOC Removal · Respirator Cartridges · Gas Masks & Filters · Industrial Gas Filtration

IMPREGNATED ACTIVATED CARBON · 04 / 04

Impregnated Activated Carbon

Coconut Shell IAC — Chemical Treatment Grade

04 / 04

Standard GAC or pellets chemically treated with specific reagents (KI, KOH, ZnCl₂, Sulfur, Silver) to target toxic and corrosive gases not adsorbed by plain activated carbon alone. Used in military, nuclear, and industrial critical-safety applications.

Base Material	Coconut Shell GAC or Pellets
Impregnant Options	KI · KOH · ZnCl ₂ · Sulfur · Silver
Iodine Value (base)	800 – 1000 mg/g
Impregnant Loading	3 – 15% (as per application)
Moisture Content	< 8%

Ash Content	< 10%
Bulk Density	480 – 580 g/L
pH (Slurry)	7 – 10 (depends on impregnant)
Particle / Size	Custom – 4×8 / 2 mm / 4 mm
Shelf Life	24 months in sealed packaging
Packing	25 kg sealed moisture-proof bags
Origin	Coconut Shell – South India

APPLICATIONS

Toxic Gas Removal (H₂S, HCN) · Mercury Vapour Control · Military CBRN Filters ·
Nuclear Off-Gas · Chemical Industries · Odour Control

QUICK PARAMETER COMPARISON

Use this table to select the right grade for your specific process needs. Custom specifications are available on request.

Parameter	GAC	PAC	Pelletized	Impregnated
Raw Material	Coconut Shell	Coconut Shell	Coconut Shell	Coconut Shell
Iodine (mg/g)	900-1100	800-1050	850-1000	800-1000
Surface (m2/g)	950-1200	900-1100	900-1100	800-1050
Moisture (%)	< 5%	< 10%	< 5%	< 8%
Ash (%)	< 5%	< 5%	< 5%	< 10%
Hardness/Strength	>=95% Ball-Pan	—	>=90 N/cm	>=90 N/cm
Bulk Density (g/L)	450-550	300-450	430-510	480-580
Size / Mesh	4x8, 8x16, 12x40	200/325 mesh	1.5-4mm dia	Custom
pH (Slurry)	6-8	6-8	6-8	7-10
Liquid Phase	YES	YES	YES	YES
Gas Phase	YES	—	YES (primary)	YES (primary)
Chemical Impregn.	—	—	—	YES (KI/KOH/S)
Standard Pack	25kg / Jumbo	25kg bags	25kg / Jumbo	25kg sealed
Best For	Water / Gold	Pharma / FMCG	Air / VOC	Toxic Gases

THE COCONUT SHELL ADVANTAGE

Coconut shell is globally recognised as the premium raw material for activated carbon due to its unique microporous structure and natural hardness.

Superior Microporosity

Coconut shell produces a predominantly microporous structure (pore dia <2 nm), ideal for small-molecule adsorption in water and gas purification systems.

High Hardness & Density

Hardness $\geq 95\%$ ensures minimal attrition losses, longer bed life, and reduced carbon consumption, lowering your operational costs significantly.

Renewable & Sustainable

Derived from agricultural waste (coconut shells), making it the most eco-friendly and sustainable activated carbon source available globally.

Low Ash, High Purity

Ash content below 5% means less inorganic leaching into treated water or process streams, critical for pharmaceutical and food-grade applications.

Consistent Quality

Controlled activation with strict QC at every batch ensures consistent iodine values, surface area, and physical properties lot to lot.

South India Origin

Proximity to Chennai and Mangalore ports ensures fast loading, reduced logistics costs, and shorter lead times for buyers across Asia, Middle East, and Europe.

PACKING, SUPPLY & EXPORT DETAILS

Standard Pack	25 kg multi-layer kraft / PE bag
Bulk Pack	500 kg / 1000 kg FIBC Jumbo Bags
Inner Liner	Moisture-proof PE liner (standard)
Labelling	Product name, grade, lot no., weight, origin
Load Port	Chennai / Mangalore (ICD inland also)
Export Terms	FOB / CIF / CFR as required

Documents	COA, MSDS, Packing List, B/L, Cert of Origin
MOQ	1 MT (samples available for QC)
Lead Time	7–14 days ex-stock / as per order
Payment	T/T, L/C at sight, advance
Markets	Middle East · SE Asia · Africa · Europe
Testing	SGS / Third-party testing on request

Ready to Source Premium Activated Carbon?

Request a sample, technical datasheet, or bulk price quote. Our team responds within 24 hours.

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OUR COCONUT PRODUCT RANGE

01 Coconut Charcoal

02 Shell Powder

03 Charcoal Briquettes

04 Activated Carbon