



1. Product and Supplier

Product	Coconut shell granular activated carbon (GAC), gold CIP / CIL recovery grade
Manufacturer	Xiamen Yeli New Materials Co., Ltd (厦门椰砺新材料有限公司) — manufacturer, not a trading company
Production plant	No. 52 Yanling West Road, Yanshi Town, Xinluo District, Longyan, Fujian, China
Export office	Room 2604-4, No. 6 Hubin East Road, Siming District, Xiamen, Fujian, China
Contact	WhatsApp / Tel: +86 136 0090 6330 · yelicarbon@outlook.com · www.yelicarbon.com

2. Typical Specification

Parameter	Typical specification	Test method
Raw material	100% coconut shell (Philippines / Indonesia)	—
Particle size	6×12 mesh (1.7–3.4 mm) standard; 8×16 mesh or 3×6 mm on request	GB/T 12496.2 / ASTM D2862
Iodine adsorption value	1000–1300 mg/g (tolerance ±50 mg/g on the ordered grade)	GB/T 12496.8 / ASTM D4607
Hardness (ball-pan)	≥ 98%	GB/T 12496.6 / ASTM D3802
Abrasion resistance	≥ 98.2% retention after 30 min agitation	ASTM D3802
Apparent density (bulk density)	0.45–0.52 g/cm ³ (= 450–520 kg/m ³)	GB/T 12496.1 / ASTM D2854
Moisture, as packed	≤ 5%	GB/T 12496.4
Ash content	≤ 5% (low-ash ≤ 3% available)	GB/T 12496.3
Platelet (flake) content	< 1.5% — de-flaked, water-polished granules	In-house QC
pH	7–10 (neutral to mildly alkaline)	GB/T 12496.7

Values above are typical for regular production. The Certificate of Analysis issued for your specific batch states the tested values for that exact lot.

3. Gold Adsorption Performance (R-value / K-value)

R-value (2-hour gold adsorption rate): 52–58% of equilibrium loading within 2 hours in a standard ~1000 ppm Au cyanide solution.

K-value (equilibrium gold loading capacity): 8–12 kg Au/t (≈ 8–12 mg Au/g) in high-grade circuits.

Both indicators are measured per batch by an in-house QC laboratory in accordance with **GB/T 32992—2016** (*Determination of gold adsorption capacity and rate of activated carbon*). The test report is supplied together with the batch COA. Actual in-plant kinetics also depend on your liquor chemistry, gold concentration, carbon concentration and contact time; a bottle-roll test on your own pulp is recommended when qualifying a new grade.

4. Standard Compliance

- Produced and tested against the key requirements of **YS/T 3038—2020** (Granular Activated Carbon for Gold Production).
- Physical and chemical testing to the **GB/T 12496** series and the referenced **ASTM** methods listed in section 2.
- Gold adsorption capacity and rate to **GB/T 32992—2016**.
- Every batch is issued with a **Certificate of Analysis (COA)**. Independent third-party testing (SGS / Intertek or a laboratory of your choice) is welcome, at the buyer's request.

5. Packing, Shipping and Handling

Standard packing	25 kg PP woven bags with inner PE moisture-barrier liner, palletized and shrink-wrapped; 500 kg / 1000 kg jumbo bags available
Container load	20 ft container ≈ 16–18 t in 25 kg bags; 40 ft container ≈ 20–22 t (consolidated loading available for smaller volumes)
Transport classification	UN 1362, Class 4.2 (self-heating solid, not otherwise specified) — English 16-section MSDS supplied per shipment
Documents per shipment	COA, MSDS, packing list, commercial invoice, certificate of origin, bill of lading
Trade terms	FOB / CIF. Regular sailings to Tema, Abidjan, Dakar, Mombasa, Port Sudan and Lagos. West Africa inland routes handled in 25 kg bags for 1000 km+ overland haulage without moisture damage.

6. Ordering

Evaluation	500 g laboratory sample, or one 25 kg export bag at cost price, supplied with the COA of that exact lot. Sample value is credited against your first container order.
Production MOQ	One 20 ft container is the most economical starting point; consolidated loading is available for smaller volumes.
Lead time	Production 7–15 days after deposit confirmation; West Africa door-to-port typically 5–7 weeks.
Payment	T/T (30% deposit, 70% against documents) or L/C at sight.