



About this document. This is the standard format of the Certificate of Analysis that YELI Carbon issues for every production batch. It is provided so that buyers can see in advance which parameters are reported, by which method, and in what form. **The COA that accompanies your shipment is a separate, batch-specific document carrying the actual tested values for that exact lot and the QC signature.**

1. Lot Identification (completed on the issued COA)

Certificate No.	YELI-COA-YYYYMMDD-NNN	Issue date	YYYY-MM-DD
Product	Coconut shell GAC, gold CIP/CIL grade	Order / PO No.	—
Batch / Lot No.	—	Production date	—
Mesh size supplied	6×12 mesh / 8×16 mesh / 3×6 mm	Quantity	— kg / t
Raw material	100% coconut shell (Philippines / Indonesia)	Buyer	—

2. Test Results

Parameter	Specification	Test method	Result (this lot)
Iodine adsorption value	1000–1300 mg/g (±50 on ordered grade)	GB/T 12496.8 / ASTM D4607	—
Hardness (ball-pan)	≥ 98%	GB/T 12496.6 / ASTM D3802	—
Abrasion resistance	≥ 98.2% retention, 30 min agitation	ASTM D3802	—
Apparent density	0.45–0.52 g/cm ³	GB/T 12496.1 / ASTM D2854	—
Moisture (as packed)	≤ 5%	GB/T 12496.4	—
Ash content	≤ 5%	GB/T 12496.3	—
Particle size distribution	Per ordered cut	GB/T 12496.2 / ASTM D2862	—
Platelet (flake) content	< 1.5%	In-house QC	—
pH	7–10	GB/T 12496.7	—
R-value (2-hour gold adsorption rate)	52–58% of equilibrium loading in 2 h	GB/T 32992—2016	— in-house QC
K-value (equilibrium gold loading capacity)	8–12 kg Au/t in high-grade circuits	GB/T 32992—2016	— in-house QC

Physical and chemical parameters are tested in the YELI in-house QC laboratory on every batch. R-value and K-value are measured by an in-house QC laboratory in accordance with GB/T 32992—2016 (*Determination of gold adsorption capacity and rate of activated carbon*); the report is attached to this certificate on request.

3. Declaration

- The product is manufactured and tested against the key requirements of **YS/T 3038—2020** (Granular Activated Carbon for Gold Production).
- The results reported above relate to the sample drawn from the lot identified in section 1. Retained samples are held for 12 months and are available for re-test.
- The buyer is encouraged to re-test the delivered lot in their own laboratory or in an accredited third-party laboratory; YELI Carbon welcomes witnessed sampling at the plant.
- This certificate is issued electronically and is valid without a wet signature.

Tested by — QC Laboratory	Approved by — Quality Manager	Date
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TEMPLATE