What is it?

A next-generation porous nanocarbon engineered to enhance the Negative Active Material (NAM) in SLI/automotive lead-acid batteries. Its ultra-high surface area and interconnected porous network radically improve charge transfer mechanism, reduce sulfation, and build a stronger, more resilient negative plate.

▶ Connect Now

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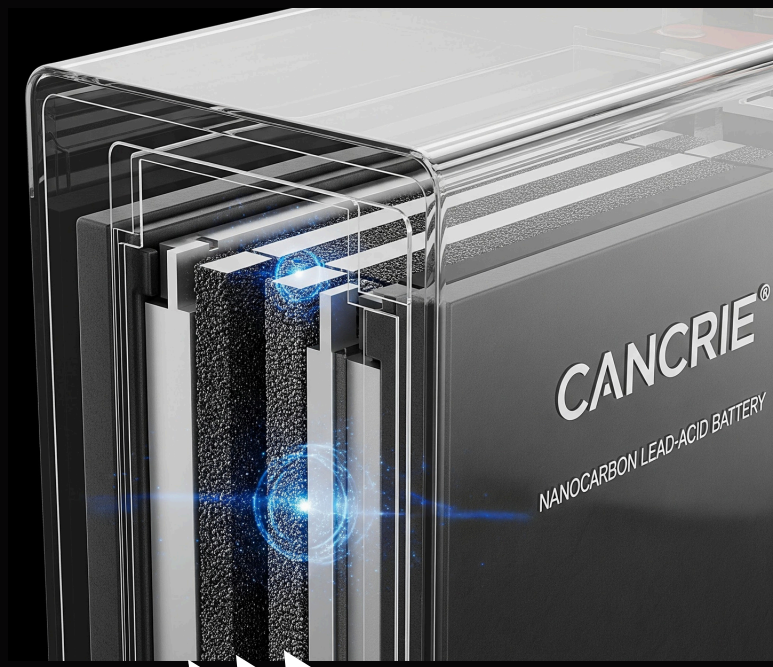
Cancrie
Powering Energy Storage



CANCRIE
NANOCARBON

Reinventing the Negative Plate for Superior Charge Acceptance, Longer Life & Durability

Cancrie
Powering Energy Storage

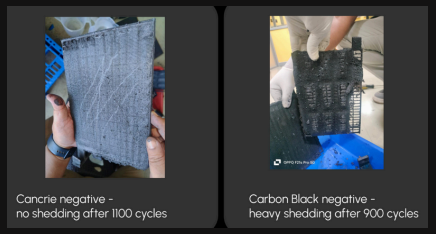
IDEAL FOR

- Automotive SLI batteries
- Two-wheeler & three-wheeler batteries
- Start–Stop/ISS systems
- High-vibration Off-road & Rural driving

KEY PERFORMANCE ADVANTAGES

ANTI-SULFATION MECHANISM

- Higher active surface area enables uniform distribution of lead sulfate.
- Leads to smaller, more reversible $PbSO_4$ crystals and preventing large sulfate crystals at concentrated places.
- Prevents hard, dense sulfation → Longer battery life under partial-state-of-charge (PSOC).

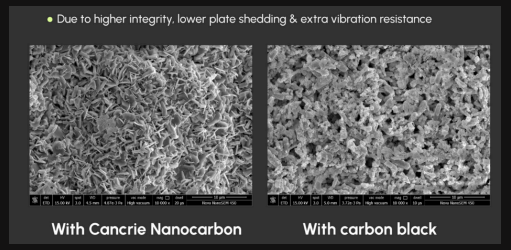


Cancrie negative -
no shedding after 1100 cycles

Carbon Black negative -
heavy shedding after 900 cycles

STRONGER NEGATIVE PLATE

- Nanocarbon strengthens the NAM matrix. The negative plate cohesive strength is 3X the conventional plates
- High mechanical strength prevents active material shedding, even on bumpy roads and rough terrain.
- Reduces plate deformation during vibration and repeated cycling.



EXTENDED BATTERY LIFE

- Longer cycle life in stop-start traffic
- Higher dynamic charge acceptance (DCA) and expected better high rate partial state of charge cycling performance

HIGH SURFACE AREA

- Nanocarbons form a high-surface-area conductive framework inside the NAM.
- Enables faster electron transport → 60% higher charge acceptance.
- Reduces internal resistance → Lesser Temperature Rise during high rate of discharges.

REINFORCED POROUS NETWORK

- Creates an open, interconnected structure for electrolyte movement.
- Improves ion diffusion → Faster recharge in idle-stop / city driving.
- Enhances NAM utilization and enables 4-5% savings on lead oxide.

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