



**NATIONAL
RESOURCES
GROUP**

SUNEETA CARBON GOLD GRADE

Specifications

Activated carbon plays a crucial role in the process of gold recovery, particularly in the field of mining and metallurgy. This remarkable material is known for its exceptional adsorption properties, which enable it to selectively capture and concentrate minute traces of gold from complex ore solutions. Gold recovery using activated carbon occurs through a process called carbon-in-pulp (CIP) or carbon-in-leach (CIL), where finely ground ore is mixed with a cyanide solution to dissolve the gold.

The resulting solution, laden with gold ions, is then passed through a bed of activated carbon, which traps the gold particles, effectively stripping them from the solution. Subsequent heating or chemical treatments allow for the retrieval of the captured gold, making activated carbon an indispensable tool in modern gold mining operations, ensuring efficient and environmentally responsible gold extraction. Gold recovery takes place in mines across the world. Like most other industries, gold extraction must strike the delicate balance between controlling operating costs and maximising the return on investment (whilst maintaining environmental responsibility too). Choosing the right activated carbon supplier for gold recovery is vital to this.

Carbon-In-Leach

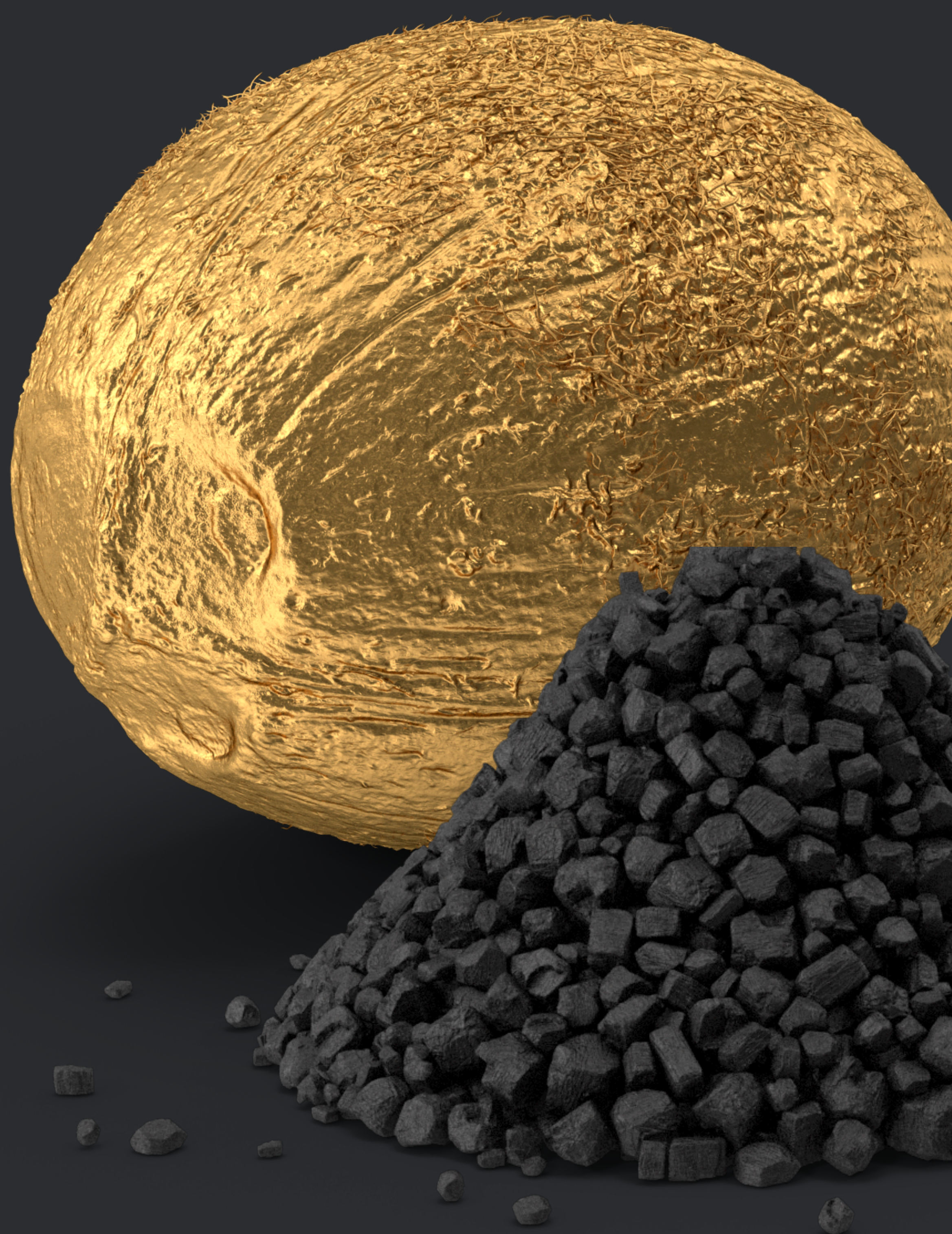
Carbon-in-leach combines leaching with the carbon-in-pulp process, creating a single unit process operation. Usually this method is chosen when native carbon (a high organics load) is present in the gold ore, adsorbing the leached gold and preventing its recovery.

Carbon-In-Column

Carbon-in-column is mostly used to recover gold and silver from heap leach solutions which are often high in solids content. This method involves the gold cyanide solution flowing through a series of fluidised bed columns in an up-flow configuration.

Carbon-In-Pulp

With carbon-in-pulp, the ore is finely ground, and the gold is solubilised using a cyanide leach in a series of tanks. Carbon is then added which adsorbs the gold. This method has a high gold recovery percentage.



*The Certificate of Analysis (COAs)
can be provided upon request*