

WHAT IT IS



GlyCat™

is a revolutionary gold leaching technology that combines glycine (a non-toxic biodegradable amino acid), with sodium cyanide to selectively leach base and precious metals.

As a primary reagent, glycine is environmentally friendly and can be recycled and re-used.

GlyCat™ at a glance

HOW IT WORKS



Glycine

is a recyclable drop-in reagent that reduces the consumption of cyanide by base and precious metals. GlyCat™ provides substantial ESG benefits as it may eliminate the need for detoxification, and it also reduces the incidence of HCN gas generated in the leaching tanks.

WHAT IT DOES



Reduction in sodium cyanide



Savings in processing costs



Increase in metal recovery from some ore types



Eliminates the need for detoxification



No dissolution of mercury or arsenic

OUR PROCESS



01

DISCOVERY TESTS

Sample tests being done to ensure viability of our process for your operation.



02

RISK REDUCTION TEST

Process conditions are refined & a benefit estimate is provided.



05

IMPLEMENTATION

We grant a commercial user license wherein the technology is implemented to the site.



04

TRIAL

Trials are conducted at the plant to validate operational suitability.



03

PILOT DEMONSTRATION

Can be done onsite or on our center.

OUR PARTNERS

The recent heap leach trial done in Mongolia demonstrated higher recoveries than conventional cyanidation, with 78% overall gold recovery.

This was achieved with a 65% reduction in cyanide usage and high recyclability of the glycine. Overall, due to high cyanide unit costs, the total reagent costs are projected to be reduced by over 70%.

BARRICK

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