

CHEMICAL IP

CHEMISTRY / SYSTEMS / SCALE

CORE PRODUCT CATEGORIES / PRODUCT PLATFORM

MineralLock™

Clay & mineral stabilization

Reduce adverse clay and mineral response through treatment designed around the actual substrate.

APPLICATION • PROOF • COMMERCIAL SCALE



01 / 04



MINERALLOCK™ / 01

Where the platform fits

Reduce adverse clay and mineral response through treatment designed around the actual substrate.

COMPLETIONS

Clay and shale stabilization in selected fluid systems.

MINING

Ore-conditioning concepts where swelling or fines affect processing.

WATER

Evaluate solids stability and compatibility in the broader treatment train.

CONNECTED SYSTEM

Chemical IP R&D, OFI supply and Kane engineering can be combined when the process requires more than a product.

Select the treatment around the customer stream, objective and operating constraints.



MINERALLOCK™ / 02

Prove the operating value

Application-specific tests connect a technical response to a customer decision.

ROCK & WATER

Characterize mineralogy, salinity, pH and temperature.

SCREEN

Use swelling, retention and compatibility methods appropriate to the job.

FIELD

Measure stability, flow and downstream treatment behavior.

VALUE METRIC

Lower instability-related cost while maintaining fluid compatibility.

Bench and field results define the commercial claim for this application.



MINERALLOCK™ / 03

From trial to program

Qualified chemistry becomes a repeatable supply and service arrangement.

QUALIFY

Agree on the specification, sampling plan and acceptance criteria.

ENGINEER

Select product form, production route, equipment and safe operating envelope.

SUPPLY

Choose bulk, toll, private label or regional manufacture as volume supports.

IMPROVE

Connect batch quality, dose and field data to an ongoing technical review.

A representative sample and a measurable target are the best starting point.