

CHEMICAL IP

CHEMISTRY / SYSTEMS / SCALE

MARKETS SERVED / MINING

Mining & Minerals

Tailings, process water, flotation, and mineral processing.

Apply polymer, separation, deposit-control, and modular process capabilities from pit to plant.

APPLICATION • PROOF • COMMERCIAL SCALE



01 / 04



MINING & MINERALS / 01

From circuit to tailings

Mining programs can be tailored to ore, process water, target recovery, and residuals management.

TAILINGS AND WATER

PAM, polyDADMAC, AquaCore™, and StructuraGel™ support settling, clarification, and rheology programs.

FLOTATION AND SEPARATION

SeptraTech™ chemistry concepts address froth, separation, and process-water return.

SCALE AND DEPOSITS

ScaleX™ programs target difficult mineral deposits and recirculating-water circuits.

LEACH AND CLEANING

SynStim™ concepts explore alternative acid and descaling approaches.

Bench and pilot testing with representative ore and water establish product fit.



MINING & MINERALS / 02

Oil sands connection

Heavy oil processing brings together water, solids, bitumen, and logistics challenges.

TAILINGS

Condition fine particles, improve water recovery, and examine paste handling.

BITUMEN

Evaluate viscosity, separation, and conditioning requirements with ViscorMax™ and SepraTech™.

TRANSPORT

Screen GelCore™ for selected remote or constrained heavy-barrel routes.

BIOLOGY AND SOURING

Assess microbial and H₂S conditions where they affect process reliability.

An integrated pilot can measure water recovery, solids behavior, hydrocarbon quality, and operating cost.



MINING & MINERALS / 03

Commercial pathway

The offer is built around a specific unit operation and an agreed success measure.

SAMPLE

Characterize ore, brine, tailings, or concentrate and establish the incumbent baseline.

SCREEN

Jar tests, settling and rheology, flotation, corrosion, or scale studies as appropriate.

PILOT

Run a measured plant or modular trial with defined input variability and output metrics.

SCALE

Supply chemistry regionally or integrate a dedicated process skid.

Potential outcomes are evaluated for the selected site; no universal recovery or energy saving is assumed.