

CHEMICAL IP

CHEMISTRY / SYSTEMS / SCALE

BUSINESS GROUPS / CHEMISTRY + IP

Chemical IP

Chemistry, application R&D, and protected process know-how.

We turn a specific customer problem into differentiated chemistry and a measurable treatment program.

APPLICATION • PROOF • COMMERCIAL SCALE



01 / 04



The invention engine

Chemical IP links formulation science to real field conditions and designs products around a defined operating objective.

APPLICATION R&D

Actual water, crude, slurry, and process samples drive chemistry selection, compatibility work, and performance testing.

PRODUCT PLATFORMS

PAM and coagulants, H₂S scavengers, water chemistry, completion systems, heavy-oil technologies, and specialty materials.

PROCESS INTENSIFICATION

Reaction engineering, heat and mass transfer, continuous processing, and controlled scale-up convert useful chemistry into practical production.

IP STRATEGY

Technology packages, protected know-how, qualification methods, and customer-specific commercial structures.

Dallas-area laboratory resources support the path from bench concept to customer qualification.



From problem to product

Each program starts with a measurable economic or operating constraint.

DIAGNOSE

Define the feed, failure mode, current treatment, target specification, and cost of the problem.

DESIGN

Select a chemistry architecture and process route that fit the customer's actual operating window.

PROVE

Use side-by-side lab work, compatibility screens, field trials, and fit-for-purpose analytics.

SCALE

Transfer a qualified recipe and release criteria into regional, toll, or modular production.

Commercial claims follow application-specific proof rather than generic performance assumptions.



Ways to engage

A technical relationship can begin with a single sample and expand into a recurring supply or technology program.

PRODUCT DEVELOPMENT

Co-develop new formulations or adapt existing platforms for unusual streams.

APPLICATION PROGRAMS

Benchmark dose, delivered cost, reliability, and process impact against the incumbent.

TECHNOLOGY LICENSING

Structure customer or market rights around validated proprietary chemistry and process know-how.

INTEGRATED DELIVERY

Bring OFI manufacturing and Kane engineering into the program when product alone cannot solve the full problem.

The first useful brief: operating conditions, current approach, performance target, and a representative sample.