

CHEMICAL IP

CHEMISTRY / SYSTEMS / SCALE

CORE PRODUCT CATEGORIES / HYDROCARBON LOGISTICS

GelCore™ Structured Hydrocarbons

Reversible crude and fuel structuring for selective logistics and storage.

Condition selected barrels, move them in a sealed structured state, and restore liquid product at destination.





GELCORE™ STRUCTURED HYDROCARBONS / 01

A reversible logistics process

GelCore™ combines front-end conditioning, low-dose structuring, sealed handling, and controlled thermal release.

CONDITION

Manage H₂S, CO₂ where needed, salt, free water, and vapor concerns before structuring.

CREATE

Blend a product-specific gelator, control temperature and mixing, then cool into a non-flowing state.

TRANSPORT

Evaluate wrapped blocks or sealed units via road, rail, container, and marine dry-freight routes.

RELEASE

Use controlled heat and mixing, then verify the receiving specification.

Formulation, dose, stability, handling, and restoration require crude- or fuel-specific pilots.



GELCORE™ STRUCTURED HYDROCARBONS / 02

Selective commercial fit

The initial focus is barrels that lose value inside the current liquid logistics route.

NEW PRODUCTION

Move incremental volume before a permanent tie-in is available.

CONSTRAINT WINDOWS

Provide optionality during pipeline apportionment or maintenance.

REMOTE FIELDS

Consider smaller or isolated production with limited liquid infrastructure.

DESTINATION VALUE

Screen whether market uplift exceeds conditioning, chemistry, handling, freight, and release costs.

Existing pipeline and diluent routes remain the base case where they provide the best return.



GELCORE™ STRUCTURED HYDROCARBONS / 03

Beyond crude

A related fuel-specific concept explores distributed strategic inventory.

DISTILLATES

Selected diesel, kerosene, and aviation fuels can be evaluated with compatible reversible formulations.

TRIPLE CONTAINMENT

A semi-solid state, sealed liner, and rigid outer package provide layered handling protection.

STORAGE

Modular caches could be positioned near emergency, defense, and remote demand.

QUALIFICATION

Verify oxidation, additives, cold flow, filterability, release yield, and end-use specification.

Long-duration fuel storage is a development objective, with hold-time and quality determined by testing.