

CHEMICAL IP

CHEMISTRY / SYSTEMS / SCALE

CORE PRODUCT CATEGORIES / FUNCTIONAL CHEMISTRY

Specialty Materials & Surfactants

EcoFlow™, BioSlick™, StructuraGel™, CarbonNova™,
and custom materials.

Build high-value chemistry for a measurable performance window in a chosen market.

APPLICATION • PROOF • COMMERCIAL SCALE

01 / 04





SPECIALTY MATERIALS & SURFACTANTS / 01

A broad development toolkit

The platform spans interfacial behavior, rheology, functional polymers, and carbon-related concepts.

SURFACTANTS

EcoFlow™ and tailored packages support wetting, flowback, emulsification, and specialty formulation.

RHEOLOGY AND GELS

StructuraGel™ systems adjust fluid structure and handling.

DRAG AND FLOW

BioSlick™ and ViscorMax™ concepts address pressure loss and difficult-fluid movement.

STRATEGIC MATERIALS

CarbonNova™ and advanced polymer ideas are assessed where a defined application pays for innovation.

Each branded family contains application-specific development work rather than a universal formulation.



Cross-market translation

A chemistry platform can solve different problems when reformulated for the end use.

ENERGY

Completion, production, flow assurance, and heavy crude.

MINING

Tailings, slurry movement, process water, and mineral systems.

PAPER

Retention, drainage, wet-end charge, and water-loop performance.

CONSUMER AND LIFE SCIENCE

Conditioning, texture, specialty materials, and research partnerships.

End-use quality and regulatory requirements are set independently for each market.



SPECIALTY MATERIALS & SURFACTANTS / 03

How we create value

Differentiation is commercial only when its impact can be measured.

TARGET

Specify the incumbent, performance gap, and operating constraints.

INVENT

Select chemistry, architecture, and processing method.

PROVE

Run application-relevant comparison, stability, and compatibility work.

DELIVER

Package IP, manufacture at the needed scale, and monitor field results.

The target metric can be dose, throughput, quality, energy, reliability, or delivered cost.