

CHEMICAL IP

CHEMISTRY / SYSTEMS / SCALE

CORE PRODUCT CATEGORIES / SOUR SERVICE

H₂S & Sulfur Control

SulfaGuard™ scavengers, solids management, and dose-to-spec programs.

Treat H₂S as a total-cost and reliability problem, not only a chemical price.



H₂S & SULFUR CONTROL / 01

A flexible scavenger ladder

Product selection considers phase, sulfur load, temperature, residence time, solids, and compatibility.

TRIAZINE SYSTEMS

MEA-based concentration options and tailored amine blends for different operating requirements.

ALTERNATIVE CHEMISTRIES

Non-triazine, oxazolidine, glyoxal-related, and oil-soluble concepts for selected streams.

SOLIDS MANAGEMENT

DithiaGuard™ and apDTZ-Sol™ concepts address byproduct and plugging concerns.

FIELD PROGRAM

Measure H₂S, chemical consumption, service events, and dose-to-spec economics.

Chemistry and performance are selected and validated for each sour stream.

H₂S & SULFUR CONTROL / 02

Process-intensified supply

The proposed platform combines regional manufacture with compact continuous equipment.

MIDLAND PRODUCTION

Toll and customer-specific supply support bulk and private-label programs.

MOBILE CONCEPTS

Continuous, skid-based manufacture can be evaluated where freight and volume favor local output.

CONTROLS

Feed ratio, cooling, reaction completion, product release, and batch traceability.

COST MODEL

Compare conversion, freight, inventory, chemical utilization, and downtime.

Process-rate and conversion targets require design, hazard review, and production validation.

H₂S & SULFUR CONTROL / 03

Treat the full facility

Sulfide removal must avoid creating a new operating problem downstream.

SPECIFICATION

Set outlet H₂S, exposure, and sampling criteria.

COMPATIBILITY

Screen scale, corrosion, emulsion, solids, and downstream process effects.

MONITORING

Use measured load and feedback to tune dose against target.

SUPPLY RESILIENCE

Set replenishment, contingency inventory, and customer-specific quality requirements.

The commercial metric is total cost per unit of H₂S removed while maintaining reliability.