

ALCHEMIA 2000 extraction additive

Convert reactive sulfur from light hydrocarbons

Applications

- Finished products such as gasoline, diesel, jet fuel and LPG
- Intermediate products and blend stocks

Features and Benefits

- Efficient reaction/extraction solvent for removing challenging sulfur compounds from light hydrocarbons
 - More efficient than traditional direct injection scavengers
 - Potentially lower cost option to meet regulatory and commercial sulfur specifications
 - Avoid reduction of product value or lower octane levels in meeting sulfur requirements
 - Can debottleneck downstream processing
- A component of the ALCHEMIA Contaminant Extraction Services
 - Reaction products are extracted from the treated hydrocarbon
 - Permits flexibility in treatment volumes
 - Customization of process to fit requirements

ALCHEMIA™ 2000 extraction additive from Baker Hughes, is a reaction extraction solvent utilized as a chemical component in a proprietary contaminant extraction services process from Baker Hughes.

ALCHEMIA 2000 extraction additive is effective to both convert reactive sulfur compounds into lower reactive species that are then extracted into the reaction/extraction additive. Reaction/extraction processes using ALCHEMIA 2000 extraction additive may be more attractive than traditional direct injection scavenger programs, as the ALCHEMIA process is designed to physically remove the contaminant sulfur from the hydrocarbon being treated while simultaneously not leaving any residual reactant in the treated hydrocarbon.

ALCHEMIA 2000 extraction additive is intended to be only applied as a component of the Baker Hughes ALCHEMIA contaminant extraction services program. Alchemia 2000 extraction additive is not intended to be applied as standalone additive.

Typical properties

Specific gravity at 60°F (16°C)	1.10
Typical density at 60°F (16°C)	9.2 lbm/US gal (1,100kg/m ³)
Flash point	>200°F (>93°C)
Pour point	-5°F (-21°C)
Viscosity, D445 at 60°F (16°C)	12 cSt

Your Baker Hughes representative can provide additional guidance and assistance to determine the optimum application and monitoring program to ensure continuing success.

Materials compatibility

Suitable

- Metals:** Aluminum, copper, admiralty brass, mild steel, 304 stainless steel, 316 stainless steel
- Plastics:** Polypropylene HD, polyethylene HD, polyethylene linear, PVC
- Elastomers:** TEFLON®, HYPALON®, VITON® neoprene, Buna N

Not suitable

Elastomers: EPDM

Suitability criteria:

Metals: <1.0 MPY loss

Plastics: <10% weight change

Elastomers: <10% weight change

Materials suitability is based on analysis of test results obtained under specified laboratory conditions. All materials selection should be based on actual application. Test-ing results for materials will be made avail-able on request.

Safety and handling

Before handling, storage, or use, re-view the Safety Data Sheet (SDS) for guidance.