

ALCHEMIA 270 solids settling aid

Effective solids removal

Applications

- Bunker fuels
- Heavy oils
- FCC slurry oils
- Residual fuel components

Features and Benefits

- Effective solids and ash removal
 - Increases the economic value of the fuel oil
 - Permits clean burning of the deashed fuel oil
 - Aids residual fuels in meeting ISO8217 specifications (ash, Al, Si)
- Excellent handling properties
 - Disperses easily in the hydrocarbon system
 - Has minimal storage and pumping requirements

Baker Hughes ALCHEMIA™ 270 solids settling aid is a complex organic oil-soluble compound formulated specifically to enhance solids settling in heavy oils. This additive is used to treat heavy fuel oils, bunker fuels, and residual fuel blend components, such as fluid catalytic cracking (FCC) slurry oils to enhance removal of ash, aluminum and silica to meet ISO8217 specifications. The product should be applied when oil stream temperature is below 350°F (177°C).

ALCHEMIA 270 effective dosage can vary significantly depending upon stream characteristics and other process configuration particulars. Work with Baker Hughes technical services to determine appropriate application details.

Typical properties

Appearance	Clear yellow liquid
Specific gravity at 60°F (16°C)	0.94
Density at 60°F (16°C)	7.83 lbs/US gal (904 kg/m ³)
Flash point (SFCC)	140°F (60°C)
Pour point	<-50°F (<-46°C)
Viscosity at 60°F (16°C)	53 cP

Materials compatibility

Suitable

Metals: Admiralty brass, 316 stainless steel

Plastics: TEFLON®

Elastomers: VITON®

Not suitable

Metals: Aluminum, copper, mild steel, 304 stainless steel

Plastics: HD polyethylene, PVC, HD polypropylene, linear polyethylene

Elastomers: Buna N, CSM, EDPM, Neoprene

Materials suitability is based on analysis of test results obtained under specified laboratory conditions. All materials selection should be based on actual application. Testing results for materials will be made available on request.

Suitability criteria:

Metals: <1.0 MPY loss

Plastics: <10% weight change

Elastomers: <10% weight change

Safety and handling

Before handling, storage, or use, review the Safety Data Sheet (SDS) for guidance. This product is sensitive to water contact in storage tanks and will form a gel. Once in the operating unit, the product will partition to the oil phase and low concentrations of water are non-problematic.