Spectrafloc 670K

Cationic emulsion flocculant

Applications

- Liquid/solids separation
- Waste water treatment
- Inlet pretreatment systems
- Process water

Features and benefits

- Economical to use
  - Disperses and dissolves readily in water
  - Rapid solubility reduces mixing time
  - Effective at low dosage
  - Shorter processing time, increased working capacity
- High solids removal rate
  - Increases efficiency in flotation, clarifiers, and thickeners
  - Produces water with low solids and oil
  - Reduces sludge volume and lowers disposal costs
- Improved performance
  - Flotation – clear water and concentrated float
  - Clarification – rapid separation and improved settling
  - Thickening – improved compaction, settling, and drainage
  - Dewatering – high solids capture and reduces solids in effluent

Baker Hughes **Spectrafloc 670K** is a high molecular weight cationic liquid emulsion polymer. This flocculant is a polyacrylamide that exhibits a very high degree of cationic charge. Spectrafloc 670K is effective in refining and petrochemical liquid/solids separation processes including flotation, clarification, thickening, dewatering, and demulsification applications.

Inversion prior to applying may be accomplished manually, automatically, or on a batch basis, by preparing a 0.1 to 0.5% solution with clean water below 110°F (43°C). In order to maintain a continuous supply of polymer, either an Automatic Polymer Make-down Feed System or a Manual Dilution Batch Feed Tank System may be used.

The product is formulated for excellent stability. It is normal to have a slight mineral oil layer may form on top after prolonged standing. If the oily layer becomes significant, prior to feeding Spectrafloc 670K, it is suggested the material be agitated with either a drum mixer or through a recirculation loop. SpectraFloc 670K is not shear sensitive, but inverted product solutions are, and should not be exposed to centrifugal pumps or mixers with speeds greater than 400 rpm.

Chemical feed rates of Spectrafloc 670K will vary from system to system, depending upon individual system conditions and should be determined by your Baker Hughes sales representative.

Typical properties

Shelf life	9 months when stored at 40 to 90°F (4 to 32°C)
pH	2.5 to 4
Viscosity	1,000 to 3,500 cps
Freeze point	0°F (-18°C)
Specific gravity	1.04 @ 77°F (25°C)
Flash point	>212°F (>100°C)

Materials compatibility

Suitable

Metals:	316 stainless steel
Plastics:	Fiberglass reinforced plastic, high-density polyethylene, cross-linked polyethylene, TEFLON®, glass or epoxy-lined tanks

Not suitable

Metals:	Iron, copper, aluminum or brass
Elastomers:	Buna-N, natural rubber,

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.

Safety and handling

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

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