POLYFREE 860 antifoulant

Inhibits deposition fouling from organic and inorganic solids

Applications

- Steam cracker quench water
- Dilution steam systems
- Cracked gas compressors
- Butadiene purification solvent recovery columns

Features and Benefits

- Antipolymerant and dispersant antifoulant
  - Antipolymerant and dispersant chemistry in one product reduces the need for multiple injection systems
- Multifunctional
  - Inhibits polymer formation
  - Especially effective on materials that can undergo free radical polymerization, such as butadiene and styrene
  - Diels Alder reaction fouling control
- Water miscible
  - Inhibits deposition fouling from organic and inorganic solids and particulates present in the feed stream or formed in the process
- Compatible with many hydrocarbon streams and processes
- Use of a water carrier reduces overall product hazards
  - Especially regarding volatile organics and flammability, as compared to a hydrocarbon carrier-formulated product

The Baker Hughes **POLYFREE™ 860 antifoulant** is a water miscible multifunctional additive designed for process systems where a continuous water phase is present, or in non-aqueous process streams where the use of a water carrier is not detrimental. Typical application points would include steam cracker quench water and dilution steam systems, cracked gas compressors, butadiene purification solvent recovery columns, etc. The product provides antifoulant functionality as an antipolymerant and dispersant for organic/inorganic solids and particulates.

POLYFREE 860 antifoulant should be injected upstream of the fouling equipment allowing adequate distance for the antifoulant to be uniformly mixed with the process stream. This product can be injected directly into the process stream or added to a carrier stream that is injected to the process stream. Use of an injection quill or nozzle may or may not be required. Dosages will vary depending upon the severity of the fouling characteristics of the system.

Consult your local Baker Hughes representative to determine the optimum feed dosage and point of injection for your application.

Safety and handling

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

Typical properties

General appearance	Orange liquid
Specific gravity at 60°F (16°C)	0.994
Flash Point, SFCC	212°F (100°C)

Materials compatibility

Suitable

Metals:	304 stainless steel, 316 stainless steel, copper, admiralty brass, aluminum
Plastics:	HD polyethylene, HD polypropylene, PVC, linear polyethylene, TEFLON®
Elastomers:	EPDM

Not suitable

Metals:	Mild steel
Elastomers:	VITON®, HYPALON®, buna N, 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.