

POLYFREE 697 antifoulant

Polymerization inhibitor for petrochemical applications

Applications

- Petrochemical systems
- Ethylene plant fractionation section
- Butadiene process
- Styrene process
- Vinyl monomer processes

Features and Benefits

- Powerful free radical scavenger
 - Show effectiveness in systems containing unsaturated monomers that undergo free radical polymerization
- Inhibits the formation of gums and polymers
 - Maintains cleaner heat exchanger surfaces

The Baker Hughes **POLYFREE™ 697 antifoulant** is an organic polymerization terminator designed for hydrocarbon or mixed hydrocarbon/water applications. It is a strong free radical scavenger, which shows effectiveness in systems containing unsaturated monomers such as butadiene and styrene.

POLYFREE 697 antifoulant should be injected upstream of a fouling unit allowing adequate distance for the antifoulant to be uniformly mixed with the process stream. Dosages will vary depending upon the severity of the fouling characteristics of the system.

Typical applications are in light ends fractionation towers for protection of the tower and reboilers against fouling.

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	Clear reddish amber liquid
Relative density at 60°F (16°C)	0.9257
Flash point, SFCC	152.6°F (67°C)
Viscosity (dynamic at 60°F)	4.4 cP

Materials compatibility

Suitable

Metals:	Admiralty brass, aluminum, copper, mild steel, 304 stainless steel, 316 stainless steel
Plastics:	TEFLON®, polyethylene HD, polypropylene HD

Elastomers: VITON®

Not suitable

Plastics:	PVC, polyethylene linear
Elastomers:	Buna N, neoprene, CSM, EPDM

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.