

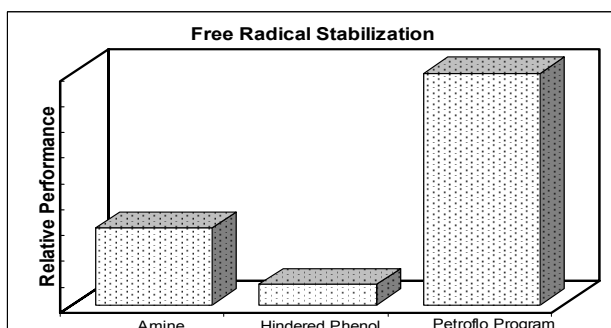
Cracked Gas Compressor

Petroflo* Inhibitor Program

Description and Use

Petroflo* Inhibitor programs are designed to:

- > Inhibit free radical polymerization fouling
- > Decrease production losses
- > Extend run lengths
- > Increase efficiencies in heat transfer equipment and other process equipment
- > Reduce pressure drop constrains
- > Petroflo inhibitors are a hydrocarbon soluble blend of chain terminators designed to inhibit free radical polymerization fouling in the presence or absence of oxygen.
- > Petroflo inhibitors are most effective at stabilizing radicals in low oxygen environment (Refer to figure below).
- > Petroflo inhibitors offer the additional advantage of being reactive in the vapor stream at temperatures in excess of 200°F (1 atm). This specific reactivity is not found with other commonly used antioxidants. This added feature would improve performance in areas where polymer can form in the vapor phase.
- > Also, GE Infrastructure Water & Process Technologies has the ability to run residual tests on Petroflo Inhibitor programs



Typical Applications

- > A Petroflo treatment program will minimize polymer fouling, due to the presence of dienes, in ethylene plant process gas compressors and after coolers.
- > Petroflo Inhibitor programs can also be used to minimize polymerization and reduces fouling in other petrochemical plant.



Treatment and Feeding Requirements

- > Proper treatment levels for Petroflo programs depend on many factors such as the severity of the conditions particular to a given installation.
- > Assessment of these factors will aid the GE representative in recommending treatment rates and control procedures specific to each application.
- > Petroflo programs are typically fed neat, but can be diluted to a convenient strength with aromatic hydrocarbons if necessary. For consistent protection, Petroflo programs should be fed continuously using a chemical proportioning pump. Injection points should be as far as upstream of the fouling locations as possible to assure maximum mixing and contact.



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- > Avoid copper-bearing alloys in the feed system. Also avoid prolonged contact with PVC or fiberglass. Keep water out of the feed system.
- > **DO NOT MIX** with other process chemicals.

General Properties

- > For best treatment performance, the chemical program must be conscientiously evaluated by periodically recording critical unit parameters such as heat transfer, pressure drop and equipment cleaning cycles.

Packaging Information

- > Petroflo Inhibitor programs are blended as a liquid and are supplied with a variety of delivery options. Depending upon geographic location, these options include, but are not limited to:
 - > GE Semi-Bulk Control™ (SBC®) Service Program.
 - > GE Semi-Bulk Control™ (POF®) Service Program
 - > ISO Containers
 - > Ask your local GE representative for details on the delivery options available to your area.
 - > Typically, shipment is made from the production plant nearest to the customer.

Storage and Handling

- > Combustible. Do not use around sparks or flames. Bond containers during filling or discharge when performed at temperatures at or above the product flash point.
- > Keep containers closed when not in use. Store in cool ventilated location. Store away from oxidizers.

Safety Precautions

- > A Material Safety Data Sheet containing detailed information about this product is available on request.