



VAPO-KLEEN™

HIGH PERFORMANCE PREMIUM LPG/PROPANE ADDITIVE

Untreated LPG/propane, as it passes through vaporizers and the fuel system, deposits heavy ends that break down and form a gummy/greasy residue. Water deposits in vaporizers & fuel systems not only foul the fuel, they can freeze, blocking the flow of fuel. These problems inhibit performance, requiring disassembly and clean-up of the fuel system components. This results in increased equipment down time, increased operating and maintenance costs. LPG/propane treated with VAPO-KLEEN™ is the perfect low cost solution for you and your customers to help greatly reduce these problems.

VAPO-KLEEN™ is a unique, patented technology for propane systems formulated to clean direct & indirect fired vaporizers in process systems. VAPO-KLEEN™ softens and removes long chain, "heavy end" deposits to prevent their interference with the gas delivery system. It also disperses water to safely remove it. Dispersing and removing water prevents freezing and steel tank deterioration in these fuel systems. The result is a cleaner fuel system, more efficient burning, reduced equipment down time, and reduced operating and maintenance costs.

Use of VAPO-KLEEN™ Premium LPG/Propane Additive also helps reduce exhaust emissions. This promotes a healthier work environment, reduces exposure to potential environmental fines and prevents possible shut down.

FEATURES AND BENEFITS

- **Reduces Maintenance Costs**
 - Helps remove and prevent heavy end buildup in storage tanks and lines
 - Cleans direct and indirect fired vaporizers, increasing their efficiency
 - Prevents deposits in vaporizers and downstream regulators/gas valves
 - Helps prevent corrosion and stabilizes fuel
- **Provides Performance Enhancing Properties**
 - Helps disperse water, essentially eliminating the need to use methanol
 - Helps remove tank scale and other deposits as part of a maintenance program
 - Helps hold insoluble foreign matter in suspension
 - Increases combustion efficiency, resulting in improved fuel economy
- **Reduces Harmful Emissions**
 - Reduces CO (carbon monoxide) emissions with continued use
 - Non-metallic/non-alcohol chemistry reduces harmful gasses, improving air quality



PRODUCT DATA SHEET

VAPO-KLEEN™

HIGH PERFORMANCE PREMIUM LPG/PROPANE ADDITIVE (VAPOKLEEN)

APPLICATIONS

VAPO-KLEEN™ can be used as part of a maintenance program to remove and prevent deposits occurring in both direct and indirect LP-gas vaporizers and downstream in regulators and valves. VAPO-KLEEN™ can also be used to clean tanks and lines. VAPO-KLEEN™ is documented to improve the quality of LPG/ Propane used in all types of propane applications. Typical applications include direct & indirect LP-gas vaporizers in process systems, standby systems, peak-load systems, grain dryers, boilers, heaters, dryers and any propane powered fuel systems.

BLENDING RECOMMENDATIONS

Product can be added to bulk propane storage during delivery of fuel. Storage tank should have a 20% heel of fuel and be free of excess water and/or sludge.

Treat Rate

1:3000

Maximum Dosage: Dosage for this product should not exceed 1 gallon per 1000 gallons of propane.

Additive performance depends on the specific fuel being treated and condition of storage tanks.

SAFETY PRECAUTIONS

When handling this product, persons should exercise caution and wear protective goggles, gloves and clothing. See cautions indicated in the corresponding Safety Data Sheet before handling and storing this product.

WARRANTY

We guarantee this product to comply with our published specifications. Since the use of this product is beyond our control, we disclaim responsibility for its performance, handling, use, storage, the results obtained, or any injury of any nature resulting there from. Product warrantee and seller's obligations apply only to replacement of product. Seller assumes no liability for any claim or loss of any other kind. In no event shall seller be liable for indirect punitive, special or consequential damages or expenses. Any warrantee claim shall be governed by and construed in accordance with the laws and jurisdiction of the State of Illinois.

TYPICAL SPECIFICATIONS

Color (ASTM D1544) Blue
Specific Gravity @ 68° F (ASTM D891) 0.797
Density, lbs./gal. (Calculated) 6.65
Flash Point °F, TCC (ASTM D3278)..... 109
Additive Pour Point °F (ASTM D97)..... N/A
Viscosity @ 68° F cP (Brookfield)..... N/A

This product is ashless and contains no heavy metals, metallic compounds or alcohol.

PACKAGING

Available in bulk, 250 gal. totes, 55 gal. and 5 gal. containers.