

## DESCRIPTION

AMERGY 222 fuel oil conditioner is a premium blend of solvents, dispersants, surfactants and detergents for minimizing the effects of a particular fuel's inherent instability and/or incompatibility when two or more fuels from different bunker supplies are blended. During blending, normally suspended and relatively stable asphaltenes can precipitate from the fuel and form fuel sludge.

The concept of AMERGY 222 conditioner is twofold:

1. To suspend heavy asphaltenic fuel particles and disperse fuel sludge so that the fuel can be pumped, centrifuged, preheated, and filtered with a minimum of fouling and subsequent cleaning operations.
2. To dissolve existing fuel sludge into the fuel to become a more stable, homogeneous fluid. This will maximize the energy potential utilization of the entire fuel delivery and minimize the accumulation of fuel deposits such as catalyst fines, dirt, and silt in fuel storage tanks.

As these benefits are obtained, cost savings are realized as less labor and attention needs to be paid to cleaning tanks and equipment. When used regularly, the likelihood of encountering problems attributed to accumulated sludge and fuel deposits during severe weather are eliminated.

AMERGY 222 conditioner can be used in both diesel engine and boiler fuel oil systems.

## FEATURES

- **Effective blend of self-dispersing solvents and conditioners to suspend asphaltenes in residual fuel oil and to stabilize and to prevent sludge and fuel deposit accumulation**
- **Completely soluble in fuel oil prevents removal during centrifuge operation**

## APPLICATION AND USE

AMERGY 222 fuel oil conditioner can be added to the fuel oil tanks by directly adding it to all tanks that will be receiving fuel prior to fuel delivery. This will ensure that the additive is properly mixed and dispersed throughout the fuel (e.g., via fuel tank sounding tubes/vents). AMERGY 222 maximizes the conversion of energy stored in the fuel into useful energy when used routinely. AMERGY 222 may be used to treat unstable or poorly blended residual fuels and improve compatibility during fuel-switchover with low-sulfur fuel oil including marine gas oil.

It is recommended that fuel deliveries are representatively sampled and analyzed to monitor overall fuel quality and to determine levels of contamination. Consult your local Drew Marine representative for further discussion on fuel samplers, fuel analysis services and onboard fuel testing.

The dosage rate will vary depending upon the treatment schedule.

1. When used with each fuel delivery, AMERGY 222 fuel oil conditioner can be dosed in a range of 1/6000 - 1/15,000 (1 liter to 6-15 tons of fuel).
2. If not used on a regular basis, an alternate schedule can consist of dosing only when a problem from fuel incompatibility/instability occurs. In this case, the dosage rate should be 1/6000 (1 liter to 6 tons of fuel). This higher treatment rate is necessary to dissolve and disperse the existing fuel sludge.

## BENEFITS

- **Recovers fuel sludge as usable fuel to maximize entire fuel delivery**
- **Maintains the fuel oil as a homogeneous mixture**
- **Reduces tank cleaning costs**
- **Maintains tanks, heaters, strainers and lines free from sludge and fuel deposits**
- **Optimizes purifier sludge discharge and solids removal**
- **Does not require elaborate dosing equipment**
- **No storage stability problems for fuel in extended storage**



**Contact your Drew Marine representative for more information**

To optimize the appropriate dosing rate determined from the fuel stability/compatibility spot number, use the following table for guidance. Stability/compatibility may be quickly determined using the FO COMPATIBILITY TESTER, available from Drew Marine. (Refer to the FO COMPATIBILITY TESTER product data sheet for technical details and ordering information about that test kit.)

Stability/ Compatibility Spot Number	Dosage Rate
1	1:15,000
2	1:12,500
3	1:10,000
4	1:8,000
5	1:6,000

## TYPICAL PHYSICAL PROPERTIES

Appearance:	Clear, brown liquid
Odor:	Aromatic
Density @ 20 °C :	1.06 g/cm <sup>3</sup>
Flash Point (PMCC):	74.4 °C min.
Solubility:	Soluble in all proportions in fuel oil

**NOTE:** Always wear the appropriate personal protective equipment when using this product.

## PACKAGING

AMERGY 222 Fuel Oil Conditioner is available in 25-liter containers (PCN 4757409).

## IMPORTANT INFORMATION

Drew Marine maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees.

Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



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