

## DESCRIPTION

LT-SOOT RELEASE low temperature soot remover is a unique, catalytic powder designed to effectively reduce exhaust deposits and to maintain clean heat transfer surfaces in exhaust gas boilers. Deposits in the exhaust system waste energy, cause corrosion, increase stack fire potential and can lead to costly repairs.

The low activation temperature 200° C of LT-SOOT RELEASE soot remover compliments and assures that the most efficient energy recovery systems remain free of exhaust deposits. LT-SOOT RELEASE soot remover works by reducing the ignition temperature of the organic deposits from incomplete combustion, which bind the adherent incombustible deposits. In doing so, exhaust deposits become friable losing their adherent properties, and are easily removed and eliminated during normal soot-blowing operations.

## APPLICATION AND USE

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.

Although designed specifically for use in diesel exhaust gas economizers, LT-SOOT RELEASE low temperature soot remover can be used in any fireside application such as:

- Firetube boilers
- Water-tube boilers/H.P and L.P
- Main boilers
- Donkey boilers
- Auxiliary boilers

Should the product freeze, allow it to thaw thoroughly and mix well before attempting to feed.

The recommended dosage rate is 1 kg/day for every 400-500 m<sup>2</sup> of surface area to be treated. However, variations in fuel quality, engine load, boiler design, heating surface configuration and the amount of carbonaceous and incombustible deposits may alter this dosage rate. For vessels with exhaust gas temperatures below 250° C, it is recommended that the dosage rate be increased 1.5 kg/day for every 400-500 m<sup>2</sup> of surface area.

LT-SOOT RELEASE soot remover is usually slug dosed to the exhaust trunk using the LT-SOOT RELEASE dosing unit.

### A. Exhaust Gas Economizer System

1. For this system, LT-SOOT RELEASE soot remover is injected just prior to the exhaust gas economizer inlet beyond the bypass damper (if one is fitted). However, dosing can take place anywhere in the system depending on where fouling is a problem.

2. In instances where the air stream is too fast to develop sufficient contact time, it may be necessary to partially bypass the economizer or slow the engine to half speed or less during dosing in order to achieve maximum product performance.

### B. Oil Fired Boilers System

Due to variations in design and equipment, contact your local Drew Marine representative for specific instructions.

## TYPICAL PHYSICAL PROPERTIES

Appearance:	Yellowish green, free-flowing granular powder
Bulk Density:	1.3 kg/l
Flash Point (PMCC):	None
Activation Temperature:	200° C

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

## FEATURES

- Effective blend of highly active combustion catalysts to remove carbonaceous organic deposits and to unbind incombustible deposits
- Free-flowing powder
- Low activation temperature
- Non-flammable

## BENEFITS

- Maintains cleaner heat recovery transfer surfaces than soot blowing alone
- Minimizes the risk of stack fires
- Protects economizer asset from low-temperature corrosion
- Easy to apply
- Compliments modern high energy efficient diesel exhaust gas recovery systems
- Effective in auxiliary boilers
- Safely stored in dry, well ventilated area



Contact your Drew Marine representative for more information

## PACKAGING

LT-SOOT RELEASE low temperature soot remover is packaged in handy 1-kilogram polyethylene bags. Each keg contains 25 packages (PCN 0045626).

### Dosing Unit

LT-SOOT RELEASE Dosing Unit (PCN 0162016)

## 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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