

# SOOT REMOVER

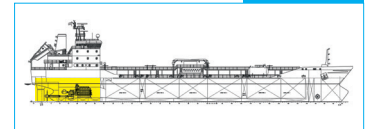
Improves the Condition of Combustion Gas Passes in Boilers Burning Heavy Fuel Oil or Coal

## Technical Information

### PHYSICAL DATA

Appearance:	Greyish powder (or Stick)
Specific gravity:	1,2 — 1,4
Corrosion action:	None on ordinary metals

### USAGE AREAS



### DESCRIPTION

Active blend of mineral based salts, containing slag modifiers and carbon oxidation catalyst. Each stick contains approximately 0,5 Kg of SOOT REMOVER.

### APPLICATION

To remove unburned carbon slag deposits from: -Boiler furnaces, superheaters, economisers, air heaters and exhaust path/stacks.

### ADVANTAGES

- Reduces soot and slag deposits by transforming them into dry, powdery ashes which are easily removed.
- Reduces cold end corrosion by neutralizing sulphuric acid deposits on surfaces where the temperature is lower than the dew point of the exhaust gas.
- Improves heat transfer and aids soot blowing due to reduction in deposits.
- Increases boiler efficiency.
- Reduces cleaning costs by decreasing maintenance and frequency of cleaning.
- No need to shut down boiler or plant when dosing.
- Available in easy-to-use stick form.

# SOOT REMOVER

## DIRECTIONS FOR USE

Determine the quantity of SOOT STICKS / SOOT REMOVER required by quantity of fuel consumed per boiler per day. See DOSAGE TABLE. Introduce the appropriate amount of SOOT STICKS / SOOT REMOVER into the hottest part of the boiler furnace by adopting any of the following methods:

1. Open a boiler peephole or furnace door and throw in the required number of sticks.
2. Remove the burner and shoot the required number of sticks through the body of the burner housing into the furnace and replace the burner.
3. If the boiler is equipped with dosing injector simply pour the contents of the stick into the injectors and direct the nozzle towards the hottest area of the flame.

## PRODUCT DOSE

- For oil-fired boilers, the daily dosage depends on the fuel oil consumption per boiler, per day (see table).
- For coal-fired boilers, the approximate daily dosage is 3 Kg of SOOT REMOVER per 30 tonnes of coal consumed per boiler every 24 hours.

Note: for best results apply SOOT STICKS SOOT REMOVER daily, immediately after soot blowing.

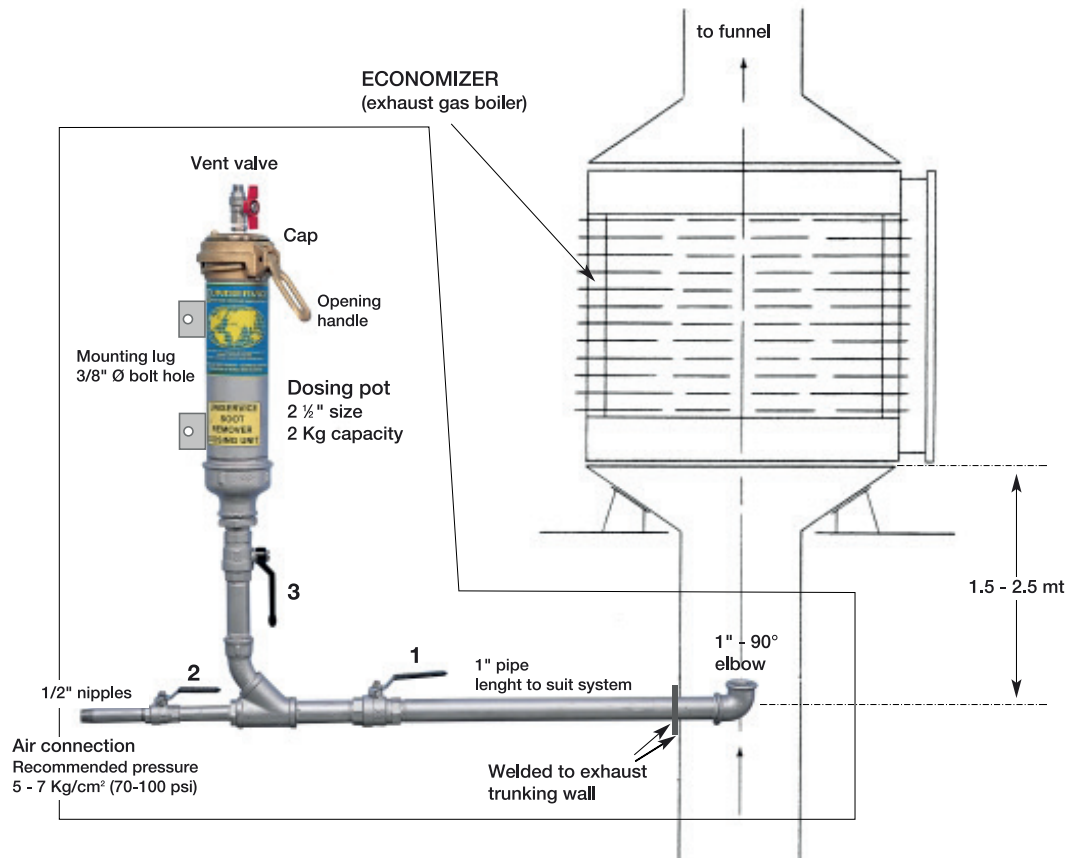
DOSAGE TABLE									
Oil Consumption Tonnes/day	20	40	60	80	100	120	140	160	180
Dosage Kg (Powder)	1	2	4	6	9	12	14	16	18
N° of Sticks	2	4	8	12	18	24	28	32	36

## PACKAGING

IN POWDER: normal size 25 Kg drums of powder  
IN STICKS: box of 50 STICKS of 0,5 Kg per STICK

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## SOOT REMOVER DOSING UNIT TYPICAL INSTALLATION



### OPERATION INSTRUCTION

- 1) Fill dosing pot with **SOOT REMOVER** powder.
- 2) In sequence open valves 1, 2 and 3
- 3) Open vent valve until all **SOOT REMOVER** is injected (make sure all powder is injected hammering the dosing pot)
- 4) Close valves in contrary sequence 3, 2, 1

**Note:** Install injector in same direction of gas flow centered in the exhaust trunking

### IMPORTANT NOTICE

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, this information is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you do a test to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by Uniservice Unisafe Srl hereunder are given gratis, and Uniservice Unisafe Srl assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.