

FUELS

## HiTEC<sup>®</sup> 4047

Home Heating Oil and Additive



Supreme Ashless Heating Oil Additive Designed for Modern  
Boiler Systems

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### Key Performance Benefits

HiTEC® 4047 home heating oil additive is the result of our extensive work with OEMs and real-world performance testing. HiTEC® 4047 delivers Afton's advanced patented detergent and anti-oxidant system designed to give supreme deposit control. The use of HiTEC® 4047 additive not only allows modern burners to maintain their high level of combustion efficiency but also improves the long term storage integrity of heating oil. HiTEC® 4047 can also be used in Off Road applications. Benefits to the customer:

#### In the tank: Improved fuel cleanliness

- Reduced sediment formation
- Corrosion protection

#### In the filters: Improved filterability

- Less filter blockage
- Reduced maintenance

#### At the pump: Improved lubricity

- Smoother, more reliable pump operation

#### In the boiler: Improved efficiency

- Lower emissions
- Reduced soot
- Fewer deposits
- Less maintenance

#### Nozzles: Improved efficiency

- Reduced deposits
- Better spray pattern
- Improved atomisation

#### Biofuel compatible

- Prevents sediment formation in B10 fuels
- Protects against pump sticking

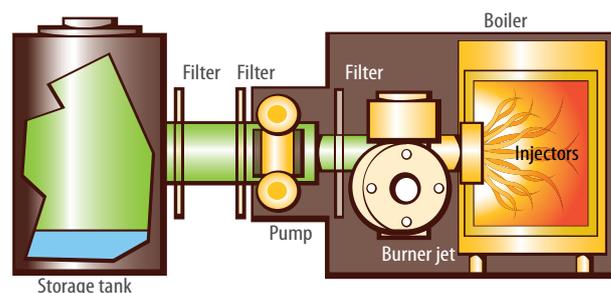
### Recommended Dosage

The recommended treat-rate of HiTEC® 4047 additive is 500 ppmv since it has been formulated for on-board additive injection. The use of HiTEC® 4047 additive allows oil companies to offer end users the choice of regular or premium heating oil quality at the point of delivery. Treat-rates may vary depending on base fuels. Please contact your Afton Chemical representative for specific recommendations.

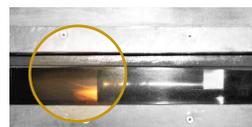
### Typical Characteristics

Appearance:	Red brown oily liquid
Density at 15° C, g/ml:	0.926
Flash Point, C (PMCC):	61 min.
Pour point, °C:	-50 max.
Kinematic Viscosity at 40° C, mm <sup>2</sup> /s:	9.5

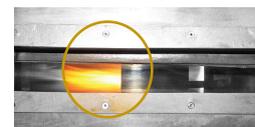
### Afton's Additives Can Help the Entire Burner System Run Smoother, Last Longer and Fuels Burn Cleaner



### Improved Efficiency at Nozzles



Flame when operated on coked nozzle



Flame when operated on clean nozzle

### Injectors are Kept Clean & Free of Deposits

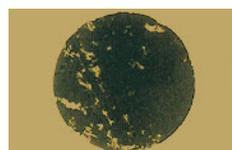


Untreated

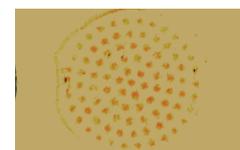


Treated

### Cleaner Filters with Less Deposits



Untreated



Treated

### Handling Information

Max Handling Temp: Ambient [ $<40^{\circ}\text{C}$ ]  
Shelf Life: 18 months at 10-40 °C

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