

FUELS

HiTEC[®] 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

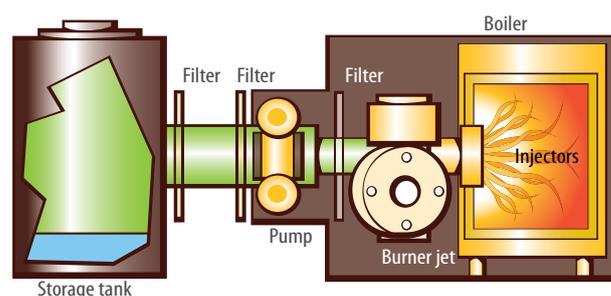
Recommended Dosage

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.

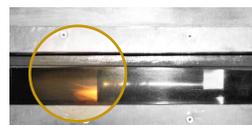
Typical Characteristics

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 ² /s:	9.5

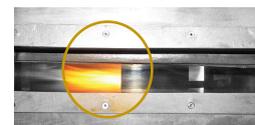
Afton's Additives Can Help the Entire Burner System Run Smoother, Last Longer and Fuels Burn Cleaner



Improved Efficiency at Nozzles



Flame when operated on coked nozzle



Flame when operated on clean nozzle

Injectors are Kept Clean & Free of Deposits

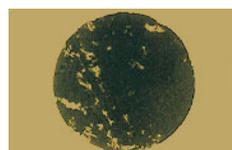


Untreated

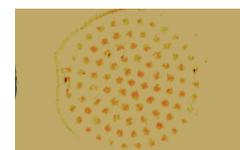


Treated

Cleaner Filters with Less Deposits



Untreated



Treated

Handling Information

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