

KEROSENE FUEL ADDITIVE PRODUCT GUIDE

PRODUCT	ACTION	USE
Exocet® Cooker	<ul style="list-style-type: none"> • Extends service interval • Increases fuel 'shelf-life' • Inhibits fuel 'drop-out' and fuel tank corrosion 	Each delivery 1 litre treats 5,000 litres of fuel
Exocet® Premium Heating Oil	<ul style="list-style-type: none"> • Increases fuel shelf life • Improves system efficiency • Ensures more complete combustion • Protects fuel tank and pipework from corrosion 	Each delivery 1 litre treats 5,000 litres of fuel
Exocet® Premium Heating Oil (+ fragrance)	<ul style="list-style-type: none"> • Increases fuel shelf life • Improves system efficiency • Ensures more complete combustion • Protects fuel tank and pipework from corrosion • Natural fuel smell is masked with 'sweeter tones' • Vanilla, cherry, lavender, citrus and candy fragrances available • Leaves no residue 	Each delivery 1 litre treats 5,000 litres of fuel
Exocet® Anti-Bug Kill/Protect	<ul style="list-style-type: none"> • Prevent bugs with Anti-Bug Protect • Kill bugs within 24 hrs with Anti-Bug Kill • Avoids blocked filters • Leaves no residue 	Protect Every delivery 1 litre treats 20,000 litres of fuel Kill as required 1 litre treats 5,000 litres of fuel
Exocet® Fuel Store Plus	<ul style="list-style-type: none"> • Keeps fuel fresh up to 2 years • Reduces deposits and varnishes • Prevents bugs • Acts as a corrosion inhibitor • Works with FAME blends 	Every delivery and tank fill of fuel is to be stored for more than 3 months 1 litre treats 4,000 litres of fuel
Exocet® Kerosene Lubricity (Not for use in AGAs)	<ul style="list-style-type: none"> • Provides a protective film • Reduces friction and wear • Increases equipment life expectancy 	Each delivery 1 litre treats 5,000 litres of fuel
Exocet® FASTFlame® (Not for use in AGAs)	<ul style="list-style-type: none"> • Reduces fuel tank sludge • Maintains burner and exchanger cleanliness • Improves combustion efficiency • Protects the degenerative effect of certain metals on fuel • Instantaneous benefits seen on new and old installations 	Each delivery 1 litre treats 5,000 litres of fuel



FUEL QUALITY AND PERFORMANCE ENHANCEMENT FOR HOME HEATING OIL APPLICATIONS (DOMESTIC KEROSENE)



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WHY USE FUEL ADDITIVES?

- Fuel quality is not what it was and is variable - lower grade fuel blends and a rise in imported fuel
- Exhaust emission requirements have significantly changed boiler design; this is ongoing
- The available fuel is not necessarily compatible with equipment design and need especially vaporising units (AGA) and boiler fuel pumps
- Some manufacturers are starting to recommend/require the use of additives

Fuel additives:

- Solve problems
- Enhance performance
- Contribute positively to sustainability objective

WHAT'S IMPORTANT?

- Char value** - this is the coking tendency of a fuel. It is part of the kerosene standard and a low char value is good. Managing the negative impact of a high char value fuel is vital, especially in vaporising (wick) burners e.g. as fitted to AGAs and other range cookers
- Deposits** - solids that attach themselves to boiler heat exchangers quickly reduce the water heating efficiency of that boiler and increase its fuel consumption. Improving the combustion process to ensure a more complete fuel burn minimises solids formation
- Fuel atomisation** - cleaning up and keeping clean the burner nozzle ensures consistent fuel flow into the combustion chamber and the correct level of atomisation to maintain optimum fuel burn
- Ageing fuel** - fuel can age rapidly, especially if its origin and time in the supply chain and unknown. Aged fuel discolours (darkens) due to oxidation and the formation of microscopic particles that agglomerate, can affect combustion and ultimately form a sludge layer in the bottom of storage tanks. Slowing the ageing process down inhibits this particle formation
- Water content** - water in fuel is not a good idea. Fuel and water should be made to separate and good tank housekeeping should become the norm
- "Bugs"** - with easy tank-to-tank contamination microbial contamination can quickly result in a semi-solid mass blocking fuel lines and filters
- Fuel sulphur content** - controlled at the point of fuel production and not part of the kerosene standard, the sulphur content can be highly variable. A low sulphur content is associated with poor natural lubricating properties and can result in fretting and premature wear in fuel pumps

WHAT CAN FUEL ADDITIVES DO?

	Exocet® Cooker	Premium Heating Oil Additive	Premium Heating Oil Additive (+fragrance)	Anti Bug Kill	Anti Bug Protect	Fuel Store Plus	Kerosene Lubricity Additive (Not for use in AGAs)	FAST Flame
Inhibits deposit formation		✓	✓					✓
Reduces effects of high char value fuels	✓	✓	✓					✓
Significantly slows the ageing process of fuel in storage						✓		
Increases a fuel's shelf life	✓	✓	✓			✓		✓
Reduces sludge formation	✓	✓	✓					✓
Guides against tank corrosion		✓	✓				✓	✓
Inhibits deposit build-up on heat exchangers and on nozzles		✓	✓					✓
Lowers carbon emissions		✓	✓					✓
Cleans up already fouled boiler nozzles								✓
Provides for an instantaneous fuel consumption benefit								✓
Provides a fuel masking fragrance			✓					
Kills microbial infestation				✓				
Prevents microbial infestation					✓			
Improves fuel lubricity							✓	
Maintains fuel/water separation		✓	✓					✓