Additive Products
For Diesel and Gasoline Applications
**Biodiesel Challenges**

All diesel fuels contain wax, and below a certain temperature, will undergo changes such as crystallization, gelling, or viscosity increase. These changes reduce the ability of the fuel to flow and create filter plugging concerns, adversely affecting the operability of vehicles.

With traditional diesel, operability concerns are understood. Today, with well established additive treatments, operability issues have become increasingly rare. But with biodiesel, there are some new challenges:

- Wax crystallization begins at higher temperatures in biodiesel and biodiesel blends, causing them to gel faster than conventional fuels.
- The pour and cold filter plugging points can occur at too high of a temperature to meet specifications and winter requirements.
- Traditional cold flow additives are often not effective in biodiesel stocks.

Since the introduction of biodiesel, several performance concerns have been raised.

- Deposits can block injectors, impacting fuel metering, and leading to deteriorations in driveability, economy, and emissions. Biodiesel has a reputation for increasing injector deposits.
- Foaming can also increase with biodiesel use.
- Biodiesels may contain a high amount of emulsified water which can lead to corrosion and increased wear on engine.
- Biodiesel often has stability problems associated with its lack of antioxidants.

**Diesel Conditioner Plus+**

Diesel Conditioner Plus+ is a multi-functional fuel additive for all seasons. Its formulation contains a superior detergent rating and a cetane improver which enhances power delivery, starting, and helps engines run smoother and quieter.

- Passes BOCLE test for lubricity.
- Reduces rust and corrosion in fuel systems.
- Contains lubricity additive to reduce friction; prevents wear and tear, extending engine life.
- Stabilizes fuel quality during prolonged storage.
- Promotes oxidative stability.
- Improved fuel economy and lower emissions.
- Reduces injector coking.
- Reduces sediment formation which can result in reduced maintenance.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Container Size</th>
<th>Treats</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADT 1116</td>
<td>16 ounces</td>
<td>320 gallons</td>
</tr>
<tr>
<td>ADT 1201</td>
<td>1 gallon</td>
<td>2,560 gallons</td>
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**Diesel Biocide**

Diesel Biocide is a multi-functional petroleum additive that is used to help maintain color stability and clarity. It can be used to eliminate and/or prevent the growth of bacteria, fungi, organic reactions, sludge formation, and also acts as a corrosion inhibitor.

- Excellent for use with all forms of Biodiesel.
- Formulated to treat more forms of algae and bacteria than other brands.
- Concentrated formula treats more gallons per ounce.
- EPA approved as both a biocide and aftermarket fuel additive.
- Prevents internal corrosion from microbial fouling.

- Dissolves gum and varnishes to keep fuel system clean.
- Cetane improver for added engine performance.
- Alcohol free.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Container Size</th>
<th>Treats</th>
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<tbody>
<tr>
<td>ADT 2116</td>
<td>16 ounces</td>
<td>1,280 gallons</td>
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<tr>
<td>ADT 2201</td>
<td>1 gallon</td>
<td>10,240 gallons</td>
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<tr>
<td>ADT 2405</td>
<td>5 gallon</td>
<td>51,200 gallons</td>
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<tr>
<td>ADT 2555</td>
<td>55 gallon drum</td>
<td>563,200 gallons</td>
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</table>
Biodiesel Challenges

Since the introduction of biodiesel, there are some new challenges that have been raised. Biodiesel may contain a high amount of emulsified water, which can lead to corrosion and increased wear on engine components. It may also lead to deteriorations in leading to fuel metering issues, impacting fuel quality and performance. Deposits can block injectors, which can cause injector fouling and result in reduced maintenance systems. Additionally, biodiesel has a reputation for increasing injector deposits and leading to deteriorations in leading to fuel metering issues. Deposits can block injectors, which can cause injector fouling and result in reduced maintenance systems.

Wax crystallization begins below a certain temperature, will undergo changes such as crystallization, gelling, or viscosity increase. These changes reduce the ability of the fuel to flow and adversely affecting the operability of the fuel system. Traditional cold flow additives are often not effective in biodiesel stocks and biodiesel blends. Traditional cold flow additives are often not effective in biodiesel stocks and biodiesel blends. Wax crystallization begins below a certain temperature, will undergo changes such as crystallization, gelling, or viscosity increase. These changes reduce the ability of the fuel to flow and adversely affecting the operability of the fuel system. Traditional cold flow additives are often not effective in biodiesel stocks and biodiesel blends.

Diesel Winter Plus+

Diesel Winter Plus+ is added to middle petroleum distillates such as No. 2 heating oil or diesel fuel to improve their low temperature operability as measured by pour point and cold filter plugging point. It prevents the plugging of lines, filter screens, and valves, and contains a deicer, which can help reduce line freezing.

- Improves fuel flow and facilitates cold weather starting, inhibits fuel icing, waxing, and gelling in cold weather
- Depresses the pour point by modifying the diesel wax crystal structure
- Improves efficiency of fuel filter/water separators through deemulsification
- Smoother, quieter engine operation
- Prevents corrosion
- Stabilizes fuel quality during prolonged storage
- Contains a cetane improver and deicer
- Alcohol free

### Diesel Performance Plus+

Diesel Performance Plus+ is specifically formulated to help your engine reach its optimum performance. It improves horsepower and combustion allowing for better fuel economy and longer engine life. The added performance comes with improved lubricity for better fuel system protection.

- Noticeably improves horsepower
- Better fuel economy through more efficient combustion
- Detergency additive extends service intervals
- Formulated for smooth starting
- Lubricity additive extends component life
- Stabilizes fuel quality during prolonged storage
- Dissolves gum and varnish to keep fuel systems clean
- Lubricity improver passes HFRR Lubricity Test for diesel fuel per ASTM D6079-99
- Stabilizes fuel and prevents corrosion per ASTM D665A
- Alcohol free

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Container Size</th>
<th>Treats</th>
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</thead>
<tbody>
<tr>
<td>ADT 3116</td>
<td>16 ounces</td>
<td>80 gallons</td>
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### Gasoline Conditioner Plus+

Gasoline Conditioner Plus+ is a multifunctional gasoline additive which cleans as it protects. It can be used with all types of internal combustion systems and gasoline blends. By cleaning the engine’s fuel injectors and carburetor, it provides better combustion, better fuel economy, and lower exhaust emissions.

- Cleans the fuel delivery and intake system providing fuel economy and reduced emissions
- Protects intake system against corrosion
- Use with leaded or unleaded gasoline, gasohol, and ethanol in two and four cycle engines
- Prevents accumulation of deposits
- Improves efficiency of fuel filter/water separators through deemulsification
- Compatible with terminal and mobile fuel systems
- Formulated to not harm catalytic converters
- Stabilizes fuel during storage
- Alcohol free

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Container Size</th>
<th>Treats</th>
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</thead>
<tbody>
<tr>
<td>ADT 5116</td>
<td>16 ounces</td>
<td>320 gallons</td>
</tr>
</tbody>
</table>
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www.parker.com/balston

Filtration & Separation/Finite
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Oxford, MI 48371-5132
T 248 628 6400, F 248 628 1850
www.parker.com/finitefilter

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www.airtek.com

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