Additive Products

- Diesel
- Biodiesel
- ULSD
- Gasoline
- Ethanol
**Diesel Conditioner Plus+**

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

**POWERSHOT+ Diesel Fuel Conditioner**

Racor POWERSHOT+™ Diesel Fuel Conditioner contains a highly effective detergent/dispersant additive package to remove fuel injector, intake valve, and combustion chamber deposits.

Racor POWERSHOT+™ is formulated to provide increased fuel lubricity, exceptional fuel system cleanliness, increased cetane, improved low temperature performance, improve fuel stability, and excellent corrosion protection.

- Compatible with Biodiesel blends up to B20
- Improves fuel flow and facilitates cold weather starting
- Contains a detergent to remove deposits from fuel system injectors, intake, and combustion chamber
- Formulated to prevent corrosion
- Smoother, quieter engine operation
- Stabilizes fuel quality during prolonged storage
- Contains a cetane improver
- Improves fuel economy
- Alcohol free

**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 incorporation
- 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

• Passes BOCLE test for lubricity
• Reduces rust and corrosion in the fuel system
• 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
• Improves starting and power
• Dissolves gum and varnishes to keep fuel system clean
• Cetane improver for added engine performance
• Alcohol free
Diesel Biocide

Racor Diesel Biocide is a multi-functional petroleum additive. It is used to help maintain color stability and clarity. Racor Diesel Biocide can be used to eliminate and/or prevent the growth of bacteria and fungi. The superior formulation controls 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
- Fuel and water soluble
- Does not cause foaming
- Promotes fuel stability during storage

Diesel Winter Plus+

Racor 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.

Racor Diesel Winter Plus+ prevents the plugging of lines, filter screens, and valves. Diesel Winter Plus+ 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+

Racor Diesel Performance Plus+ has the same engine protection qualities as the Racor Diesel Conditioner Plus+ and it has five times the cetane improver to deliver optimal engine performance.

Racor Diesel Performance Plus+ is specifically formulated to help your engine reach its optimum performance. Diesel Performance Plus+ will improve horsepower and combustion allowing for better fuel economy and engine life.

The added performance comes with improved lubricity for better fuel system protection.

- Five times the cetane improver of Diesel Conditioner Plus+
- Noticeably improves horsepower
- Better fuel economy through more efficient combustion
- Detergency additive extends service intervals
- Formulated to 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
POWERSHOT+ Gasoline Conditioner

Racor POWERSHOT+™ Gasoline Conditioner is formulated with a high concentration of detergents and dispersants that are specifically designed to clean fuel injected and carburetor engines. Racor POWERSHOT+™ Gasoline Conditioner contains a powerful dose of rust and corrosion inhibitors which prevents rust to help eliminate expensive injection system repairs. Racor’s POWERSHOT+™ Gasoline Conditioner is formulated with lubricants that prevent deposits from adhering to and baking onto hot metal surfaces which could cause injectors to malfunction.

- Compatible with Ethanol blended fuels
- Removes power robbing deposits from fuel system components
- Protects intake system against corrosion
- Lubricates and conditions fuel injection systems
- Prevents the accumulation of deposits
- Improves the efficiency of fuel filter/water separators through deemulsification
- Improves fuel economy
- Formulated to not harm catalytic converters
- Enhances fuel stability in storage
- Alcohol free

Gasoline Conditioner Plus+

Racor Gasoline Conditioner Plus+ is a diluted 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 duel delivery and the intake system providing fuel economy and reduced emissions
- Protects intake system against corrosion
- Use with leaded or unleaded gasoline, gasohal, 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

What is Ethanol?

- Ethanol Fuel is a renewable resource produced using different feed stocks such as corn and sugarcane.
- The process entails reactions that release energy from organic molecules in the absence of oxygen (fermentation).
- The feedstock is cooked and enzymes are added to speed up the process. In this process, only the starch is taken to create fuel (Protein, fibers, and oil are separated for other use).
- Ethanol is blended with gasoline creating a mixture ranging anywhere from 5-85 percent ethanol content.
- Ethanol is blended with 30 percent of our nation’s gasoline.
- Ethanol posses similar challenges to the fuel system as gasoline. Ethanol formulated additives must provide solutions for gasoline challenges.

Ethanol Cycle
**Racor Fuel Filter Funnels**

A fuel filter funnel is the perfect compliment to Racor’s full line of additives. They are easy to use, portable, and give you confidence that the fuel you are using is clean and dry.

For more information consult brochure no. 7568.

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**Racor Additive Display Stand**

Racor’s additive display stand is available by ordering part number 7551. The display comes ready to assemble and is a convenient way to display Racor additive.

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**Racor Additive Filler Spout**

Racor’s additive filler spout is available by ordering part number RK22936. This versatile filling spout is custom made to fit all your Racor product containers. Its flexible long tube spout allows flow to be stopped immediately for maximum spill proof capabilities.

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**Additive Part Numbers and Treat Ratios**

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>SIZE</th>
<th>TREATS</th>
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<tbody>
<tr>
<td>ADT 1111</td>
<td>Powershot+ Diesel Fuel Conditioner</td>
<td>11 ounces</td>
<td>30 gallons</td>
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<tr>
<td>ADT 1116</td>
<td>Diesel Conditioner Plus+</td>
<td>16 ounces</td>
<td>320 gallons</td>
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<td>ADT 1201</td>
<td>Diesel Conditioner Plus+</td>
<td>1 gallon</td>
<td>2,560 gallons</td>
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<td>ADT 1555</td>
<td>Diesel Conditioner Plus+</td>
<td>55 gallon drum</td>
<td>140,800 gallons</td>
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<tr>
<td>ADT 2116</td>
<td>Diesel Biocide</td>
<td>16 ounces</td>
<td>1,280 gallons</td>
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<tr>
<td>ADT 2201</td>
<td>Diesel Biocide</td>
<td>1 gallon</td>
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<tr>
<td>ADT 2405</td>
<td>Diesel Biocide</td>
<td>5 gallons</td>
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<td>ADT 2555</td>
<td>Diesel Biocide</td>
<td>55 gallon drum</td>
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<td>ADT 3116</td>
<td>Diesel Performance Plus+</td>
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<td>ADT 4116</td>
<td>Diesel Winter Plus+</td>
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<td>ADT 4201</td>
<td>Diesel Winter Plus+</td>
<td>1 gallon</td>
<td>1,024 gallons</td>
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<td>ADT 5111</td>
<td>Powershot+ Gasoline Conditioner</td>
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</tr>
<tr>
<td>ADT 5116</td>
<td>Gasoline Conditioner Plus+</td>
<td>16 ounces</td>
<td>320 gallons</td>
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</tbody>
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**Racor Additives are available in 55 gallon drums**

Racor Diesel Conditioner Plus+, Diesel Biocide, and Diesel Winter Plus are available in 55 gallon drums for ordering large quantities at low cost.