



## Section: J Additives

aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



ENGINEERING YOUR SUCCESS.

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## Additive Overview

# Additive Overview

We've Bottled Racor Protection

Racor additives are performance-enhancing products for all climates and seasons. They mix well with fuels and are not removed by fuel filters. The high concentration of active ingredients allows for higher treatment rates. All Racor fuel additives are alcohol-free.

## Recommendations

1. For optimum engine protection and efficiency, use a fuel and oil conditioner all the time.
2. For operations in cold climates where diesel fuel may gel, use Diesel Winter Plus+ with Diesel Conditioner Plus+.
3. For operations in high humidity areas or where water in fuel tank bottoms is ever-present, use Diesel Biocide with Diesel Conditioner Plus+.

## Diesel Additives

- Diesel Conditioner Plus+
- Diesel Biocide
- Diesel Performance Plus+
- Diesel Winter Plus+

## Oil Additive

- Lube Oil Treatment

## Gasoline Additives

- Gasoline Conditioner Plus+



## Additive Overview



16 oz



1 gal



5 gal



55 gal

Part Number	Description	Size	Treat Ratio (up to)
<b>ADT 1116</b> <b>ADT 1201</b> <b>ADT 1555</b>	Diesel Conditioner Plus+	16 ounces 1 gallons 55 gallon drum	320 gallons 2,560 gallons 140,800 gallons
<b>ADT 2116</b> <b>ADT 2201</b> <b>ADT 2405</b> <b>ADT 2555</b>	Diesel Biocide	16 ounces 1 gallons 5 gallons 55 gallon drum	1,280 gallons 10,240 gallons 51,200 gallons 563,200 gallons
<b>ADT 3116</b>	Diesel Performance Plus+	16 ounces	80 gallons
<b>ADT 4116</b> <b>ADT 4201</b> <b>ADT 4555</b>	Diesel Winter Plus+	16 ounces 1 gallons 55 gallon drum	128 gallons 1,024 gallons 563,200 gallons
<b>ADT 5116</b>	Gasoline Conditioner Plus+	16 ounces	320 gallons
<b>ADT 7116</b>	Lube Oil Treatment	16 ounces	2 gallons

# 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

Part Number	Container Size	Treats
<b>ADT 3116</b>	16 ounces	80 gallons

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

Part Number	Container Size	Treats
<b>ADT 1116</b>	16 ounces	320 gallons
<b>ADT 1201</b>	1 gallon	2,560 gallons
<b>ADT 1555</b>	55 gallon drum	140,800 gallons

## 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

Questions? Contact Technical Support:  
800 344 3286 or 209 521 7860 ext. 7555  
e-mail: racortech@parker.com

# Additives

## 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
- Fuel and water soluble
- Does not cause foaming
- Promotes fuel stability during storage

Part Number	Container Size	Treats
<b>ADT 2116</b>	16 ounces	1,280 gallons
<b>ADT 2201</b>	1 gallon	10,240 gallons
<b>ADT 2405</b>	5 gallon	51,200 gallons
<b>ADT 2555</b>	55 gallon drum	563,200 gallons

## 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

Part Number	Container Size	Treats
<b>ADT 5116</b>	16 ounces	320 gallons



### 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

# Filler Spouts

## RK22936 No-Spill Filler Spout

These versatile filler spouts have unlimited uses. They fit many Racor products including additives bottles and the flexible design allows users to bend the spout for flow control. This kit includes 4 hanging strips with 12 pieces on each strip; that's a total of 48 pieces per kit.



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