



2016 Product Guide



For 65 years Penray has helped customers solve problems and increase profits with innovative chemistry focused on automotive, heavy duty, marine and industrial applications.

Since 1951, Penray has helped keep cars, trucks, buses, boats and service vehicles on the road with quality products. The company is comprised of four business units covering heavy duty, automotive, custom/private label and export. Each focused on providing product and service solutions to meet our customer's needs.

Heavy-Duty: The Pencool® brand engine coolant line is well known in the industry as a supplemental coolant additive (SCA). In addition, our Need-Release® cooling system filters have been helping fleets and Owner/Operators extend their coolant service intervals. Penray offers a complete line of diesel fuel additives for improved MPG, and cold weather products to keep vehicles running through-out the winter. In addition, maintenance products that ensure your vehicle runs day in and day out keeping you on the road.

Automotive: The Penray brand of products is engineered for use by professional maintenance and

repair technicians. This product line helps improve gas mileage, extend engine life and improve overall performance with the consumer in mind. Technicians rely on Penray Professional Service Kits for fuel injection cleaning, power steering flush, transmission flush and other maintenance services. Penray's broad line covers fuel additives, oil additives, maintenance products, service items and winter products.

Custom/Private Label: Offering a broad array of custom formulations and packaging capabilities to accommodate customer specific requirements. Our team of chemists, marketers and production personnel are available to provide custom products and packaging designed specifically to satisfy unique requirements.

Export: Penray manufactures products for sale in over 20 countries worldwide. Working closely with our international partners, we provide products labeled to meet country specific requirements. If needed, Penray will provide product regulatory and compliance assistance ensuring shipments are received in-country without concern.

Penray strives to provide exceptional customer service and flexibility to meet your needs and help you achieve your goals.

Heavy Duty



Treatments, Cleaners, Filters, Test Strips, Inhibitors, Cold Weather, and Maintenance Products...

Automotive

Treatments, Cleaners, Functional Fluids, Maintenance, Shop Chemicals, Professional Installer Service Kits, Cold Weather and Tire Inflators...



Penray Has A Full Line Of Products To Meet All Vehicle Needs!

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-  Cetane Enhancer
-  Winter Protection
-  Cleaner
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-  Emergency Treatment

Ethanol Stabilizer 82612

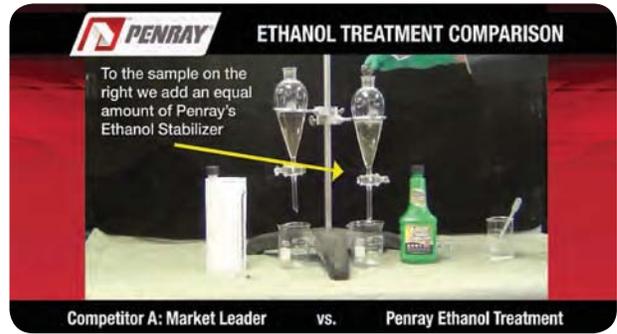
4-in-1 Year Round Protection:

- > Treats and stabilizes gas for up to one year
- > Helps prevent water and ethanol separation, corrosion, and sediment during storage
- > Keeps fuel injectors clean and prevents fuel system deposits
- > Helps protect fuel system components from the harmful effects of ethanol and water
- > For use in all gas engines, including 2-cycle, small engines, boats, generators and seasonal equipment



Ideal For Small Engine Storage!

See how Penray Ethanol Stabilizer compares to the competition, visit www.penray.com/penray-videos or scan code to watch video.



| Part# | Quantity | Net Contents | Container | Treat Rate |
|-------|----------|--------------|-----------|------------------|
| 82612 | 6/Case | 12 fl. oz. | Bottle | Up to 20 gallons |

Fuel Injector Cleaner 2112

- > Preferred formula for use in direct injection (GDI,) multi-port (MPFI,) and throttle body (TBI) injection systems
- > Just one treatment can provide increased fuel economy, power and acceleration, improved idling, quicker starting and reduced emissions
- > Helps clean harmful deposits and carbon from fuel system to restore performance
- > For use in all grades of gasoline and ethanol blends
- > Safe for catalytic converters and oxygen sensors



| Part# | Quantity | Net Contents | Container | Treat Rate |
|-------|----------|--------------|-----------|------------------|
| 2112 | 12/Case | 12 fl. oz. | Bottle | Up to 20 gallons |

Total Fuel System Cleaner 2216

- > Premium synthetic detergent package provides exceptional cleaning to restore fuel economy
- > Cleans entire fuel system including injectors and combustion chamber
- > Removes combustion chamber deposits to improve acceleration, reduce knocks/pings, and eliminate stalling
- > Keeps engine clean to reduce octane requirement
- > Use every 3,000 miles to ensure optimum engine power and performance



| Part# | Quantity | Net Contents | Container | Treat Rate |
|-------|----------|--------------|-----------|------------------|
| 2216 | 12/Case | 16 fl. oz. | Bottle | Up to 20 gallons |

Intake Valve Deposit Cleaner 2312

- > Removes carbon deposits from valves
- > Optimizes air/fuel ratio for improved performance
- > Multi-functional application through the rail or vacuum cleans the intake manifold
- > Utilizes detergent and solvent technologies for maximum effectiveness
- > Helps restore performance for quieter starts and overall efficiency

* For professional use only. Use with special application equipment.



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 2312 | 12/Case | 12 fl. oz. | Bottle |

Special Valve Sprays From Any Angle!



Fuel Injector Air Intake Cleaner 2412

- > Quietly dissolves and helps remove sticky gum, varnish and resin deposits
- > Safe for protective coatings and all air intake systems
- > May also be used to clean linkages, cables, actuators, and PCV valves
- > Not for use in CA, UT or NH



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 2412 | 12/Case | 4 oz. | Aerosol Can |

Engine Oil Treatment 3112

- > Helps restore fuel economy and increases life of critical engine parts
- > Extends engine oil life and prevents corrosion
- > Reduces friction, heat and wear to prolong life of engine components
- > Maintains engine performance and efficiency during extended service intervals
- > Keeps engine clean when used regularly



Protects Engine!



| Part# | Quantity | Net Contents | Container | Treat Frequency |
|-------|----------|--------------|-----------|-----------------|
| 3112 | 12/Case | 12 fl. oz. | Bottle | Each oil change |

High Mileage Oil Treatment 3182

- > Converts standard engine oil into a high mileage oil
- > Recommended for vehicles over 7 years or 75,000 miles
- > Anti-wear agents extend engine life
- > Keeps engine clean with superior detergents
- > Neutralizes acid and prevents corrosion
- > Conditions seals and gaskets
- > Reduces oil consumption and exhaust smoke



Helps Extend Engine Life!



| Part# | Quantity | Net Contents | Container | Treat Frequency |
|-------|----------|--------------|-----------|-----------------------------------|
| 3182 | 12/Case | 12 fl. oz. | Bottle | Each oil change over 75,000 miles |

Motor Pep 3016

- > Oil additive formulated to clean and protect the engine while driving
- > Use after oil change to help restore efficiency, reduce wear and ensure longer engine life
- > Special dual action cleaner dissolves deposits and neutralizes sludge
- > Frees and quiets valves and lifters



Cleans While Driving!



| Part# | Quantity | Net Contents | Container | Treat Frequency |
|-------|----------|--------------|-----------|-----------------|
| 3016 | 12/Case | 12 fl. oz. | Bottle | Each oil change |

Concentrated Motor Flush 7501

- > Oil system flush helps remove deposits and sludge formed in internal combustion engines
- > Use after draining oil to flush before re-filling
- > Frees valves, lifters and rings, allowing engine oil to circulate freely
- > Use every 2-3 oil changes for maximum benefit



| Part# | Quantity | Net Contents | Container | Treat Frequency |
|-------|----------|--------------|-----------|-----------------|
| 7501 | 4/Case | 1 Gallon | Jug | 2-3 oil changes |

Oil System Cleaner 7512

- > Powerful 5 minute cleaner dissolves deposits formed by high temperatures in modern engines
- > Add to engine oil before draining
- > Frees valves, lifters and rings, allowing engine oil to circulate freely
- > Removes sludge and dirt; ideal for engine overhauls



Easy 5-Minute Cleaner!



| Part# | Quantity | Net Contents | Container | Treat Frequency |
|-------|----------|--------------|-----------|---------------------|
| 7512 | 12/Case | 12 fl. oz. | Bottle | Every 3 oil changes |

Know Your Rights!

The Magnuson-Moss Warranty Act Explained

Some dealers and service centers often falsely claim that using anything other than the vehicle manufacturer's brand of chemical during the warranty period will void the warranty. THESE CLAIMS ARE NOT TRUE.

For more details ask your sales representative or visit the Federal Trade Commission site at <http://bit.ly/MagnMoss>





Power Steering Fluid System Flush 3210

- > Cleans hydraulic systems and conditions power steering fluid
- > Keeps seals soft and pliable
- > Helps stop leaks due to drying and hardening of seals
- > Compatible with conventional power steering fluid



* For professional use only. Use with power steering fluid flush equipment.



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 3210 | 12/Case | 12 fl. oz. | Bottle |

Global Synthetic Power Steering Fluid 3832

- > Premium synthetic fluid suitable for use in most vehicles*
- > Exceeds European OEM specs*
- > Exceptional viscosity stability with improved flow at low temperatures
- > Can be used as a hydraulic fluid in suspension systems, traction control units and as a shock absorber fluid



* Refer to Penray power steering fluid application guide for make/model specifications



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 3832 | 6/Case | 32 fl. oz. | Bottle |

Premium Power Steering Fluid 3900's

- > Compatible with all conventional power steering fluids
- > Meets specs of GM, Ford, Chrysler and most domestic and foreign auto manufacturers*
- > Provides protection against oxidation to prevent sludge
- > Protects against pump component wear
- > Corrosion inhibitor to protect metal components

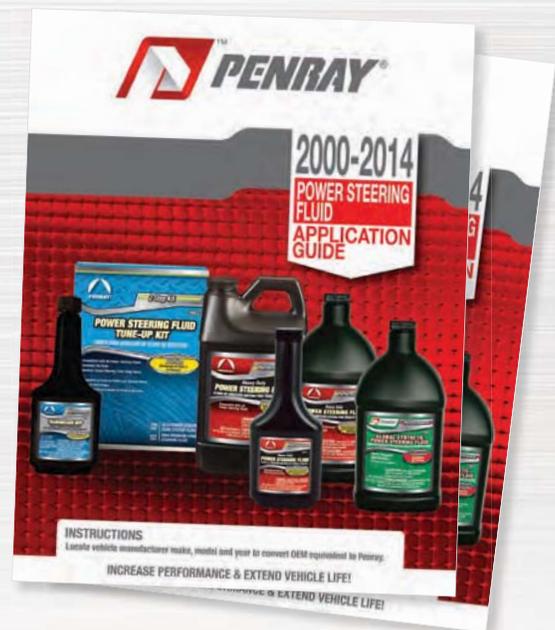


* Refer to Penray power steering fluid application guide for make/model specifications



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 3912 | 12/Case | 12 fl. oz. | Bottle |
| 3932 | 12/Case | 32 fl. oz. | Bottle |
| 3964 | 6/Case | 64 fl. oz. | Jug |

Ask Your Sales Representative About Our Power Steering Application Guide!





Transmission Maintenance

Professional Automatic Transmission Flush 6533

- > Safely removes dirt and varnish buildup to restore performance
- > Extends life by cleaning and maintaining the system
- > Conditions seals and o-rings
- > Frees sticky valves and restores smooth shifting



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 6533 | 12/Case | 12 fl. oz. | Bottle |

Transmission MVP 6538

- > 3-in-1 ATF lubricant, stabilizer and converter
- > Eliminates need for multiple OEM fluids
- > Advanced synthetic technology protects most types of ATF*
- > Enhances Dexron/Mercon ATF for use as: Chrysler ATF +3(7176), ATF +4(9602), Honda, Toyota Type T IV
- > Enhances Dexron/Mercon ATF into a highly stable fluid like Mercon V ATF



*Use Penray ATF guide for specifications based on make/model



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 6538 | 12/Case | 12 fl. oz. | Bottle |



Cooling System Maintenance

Cool Tec® 2 - Cooling System Treatment 1112

- > Neutralizes acids, inhibits rust and scale, while lubricating water pump
- > Stabilizes conventional and extended life automotive coolants
- > Protects entire cooling system including radiator and coolant sensors
- > Allows different coolant types to be mixed within one system

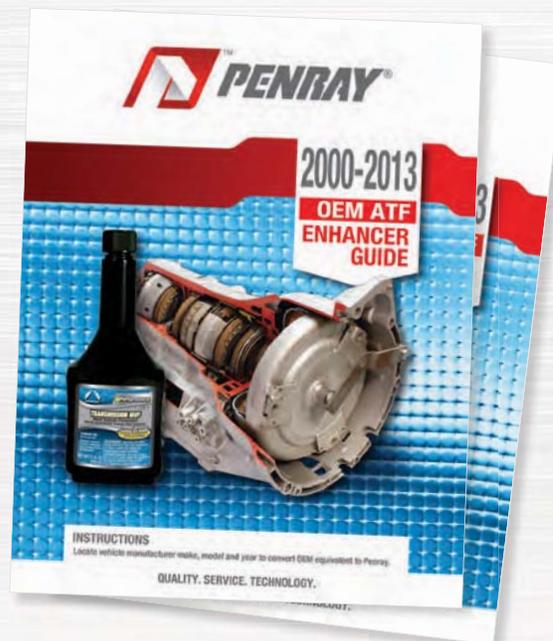


Protects Cooling System!



| Part# | Quantity | Net Contents | Container | Treat Rate |
|-------|----------|--------------|-----------|-----------------|
| 1112 | 12/Case | 12 fl. oz. | Bottle | 10-12 Qt System |

Ask Your Sales Representative About Our OEM ATF Enhancer Guide!





Penray offers a variety of specialty and industrial lubricants and coatings for use in automotive, heavy duty, farm, industrial, marine and shop applications.



Most products are equipped with an extension tube for precise application.



For complete list of state VOC regulations by product, visit www.penray.com

Silicone Spray 3416



- > Waterproofs, lubricates, and insulates all types of mechanical equipment
- > Clear, lightweight coating ideal for rubber and metal
- > Protects and renews rubber mountings, bushings and weather stripping
- > Lubricates and prevents freezing of doors, locks, windows, and drawers
- > Won't melt, freeze, or gum-up; effective from -35° to 325°F
- > For automotive, heavy duty, farm, industrial, snow plow blades, and marine use



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 3416 | 12/Case | 10 oz. | Aerosol can |

Rubberized Undercoat 4400's

- > Quick drying, black rubberized waterproof coating
- > Protects surfaces from rust and corrosion, extreme heat & cold, dust, fumes, and road salt
- > May be painted over with no bleed-through
- > For automotive applications: use on undercarriage, frame, and wheel wells to help reduce road noise
- > General use: minor roof repairs, gutters and downspouts, foundations and driveway cracks, tree wounds



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4424 | 12/Case | 16 oz. | Aerosol can |
| 4455 | 1/Drum | 55 Gallons | Drum |

PR-3 Wrench-Eze and Lubricant 4516



- > Penetrating lubricant frees rusted and difficult to remove parts
- > Displaces water, lubricates and protects metal parts
- > Reduces friction and helps silence squeaks
- > Silicone-free formula suitable for body shop use



Pleasant Vanilla Scent!

| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4516 | 12/Case | 11 oz. | Aerosol can |

White Lithium Grease #4816

- > Heavy duty metal lubrication
- > Long lasting grease works well in all temperatures and weather conditions from -25°F to 150°F
- > Ideal for metal to metal contact such as gears
- > Water and heat resistant for superior corrosion and friction protection
- > Automotive and heavy duty use: door, hood, trunk, latches, hinges, speedometer cables, distributor caps, seat guides
- > Marine use: boat control cables, linkages, trailer rollers, slides, guides, winches, rust proofing for storage
- > General use: garage doors and guides, farm equipment of all types, all general metal to metal contact applications where lubrication and protection are desired



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4816 | 12/Case | 11 oz. | Aerosol Can |

Belt Dressing 4908

- > Preserves belts to prevent glazing and premature failure
- > Increases friction to eliminate squeaking and slipping
- > For use with accessory drive and all types of "V" belts
- > Prevents premature wear



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4908 | 12/Case | 7 oz. | Aerosol Can |

Red Grease 7001

- > **Ideal for: large surfaces**
- > Sprays evenly and cures into a light grease
- > Lubricates and forms a waterproof barrier
- > Protects surfaces from moisture and corrosion
- > Functions at extremely low and high temperatures from -25°F to 300°F
- > For use in: tools, linkages, springs, conveyors, couplings, industrial chain drives, slides, garage door tracks, rollers, and farm implements
- > Red color enables easy visual inspection
- > Helps increase equipment life



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 7001 | 12/Case | 11 oz. | Aerosol Can |

Open Gear Lube 7003

- > **Ideal for: high pressure metal to metal contact**
- > Fortified with Moly Sulfide for dramatic friction reduction
- > Stable in high and low temperature extremes from -25°F to 300°F
- > Protects against rust and corrosion
- > For use in: gears, steel cables, cutting bars, winches, rollers and presses



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 7003 | 12/Case | 11 oz. | Aerosol Can |



Inner Slide Lube 7005

- > Ideal for: vertical sliding surfaces
- > Instantly adheres with stay-put formulation
- > Maximum Moly Sulfide content for ultimate lubrication
- > Protects against rust and corrosion
- > Prevents destructive metal to metal contact
- > For use in: Forklifts, fifth wheels, and all sliding metal surfaces



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 7005 | 12/Case | 10.5 oz. | Aerosol Can |

Chain Lube 7006

- > Ideal for: high velocity applications
- > Durable lightweight grease fortified with Moly Sulfide and anti-wear additive
- > For use in: any chain driven application, motorcycles, and motor bikes
- > Dries after entering chain links or cable stands
- > Quiets noise
- > Prevents oxidation leading to longer life



Great
For All
Chains!

| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 7006 | 12/Case | 10 oz. | Aerosol Can |

Dry Graphite Lube 7009

- > Ideal for: fine mechanisms and extreme heat up to 700°F
- > Dries in minutes to a non-stick finish
- > Reduces friction, heat and surface wear
- > Protects against rust and corrosion
- > Bonds to metal, plastics, rubber and other surfaces
- > Repels dirt and lubricates
- > For use in: locks, latches, tracks and slides, industrial furnace and oven door hinges



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 7009 | 12/Case | 11 oz. | Aerosol Can |

| Product | Additional Uses |
|-------------------------------|--|
| Silicone Spray | Keeps tool guides or saw fences sliding smoothly, sheds wet snow from snow plow blade |
| Rubberized Undercoat | Sound deadening in wheel wells or under a pickup bed, protects undercarriage from stone chips on gravel roads |
| PR-3 Wrench-Eze and Lubricant | Penetrates rusted threads, build-up, caked and dried grease on latches and hinges |
| White Lithium Grease | Lubricates moving parts in very wet environments such as off-road winches or boat trailer guide wheels and winches |
| Belt Dressing | Silences fan drive belts in non-automotive applications such as HVAC fan drives |
| Red Grease | Protects equipment stored in damp conditions. Provides a removable even coating of water and rust resistant grease to any surface. |
| Open Gear Lube | Provides robust lubrication in high pressure, high load equipment |
| Inner Slide Lube | Clings to vertical metal surfaces such as forklift masts or telescoping metal slides |
| Chain Lube | Any chain driven application including non-automotive applications such as conveyors and other industrial equipment |
| Dry Graphite Lube | Creates a water resistant dry lubricating film in high heat areas such as exhaust cutouts and flexible exhaust hangers |



Battery Protector 7011

Hard starting and battery failure can be caused by corrosion!

- > Prolongs battery life by preventing buildup of corrosive materials on battery terminals
- > Seals out moisture and prevents oxidation
- > Color tinted to indicate area treated
- > For use in: auto, marine, agriculture, motorcycle, heavy duty, off-road and industrial applications
- > To remove buildup use 7012 Battery Cleaner



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 7011 | 12/Case | 11.5 oz. | Aerosol Can |

Battery Cleaner 7012

- > Neutralizes acid and removes corrosion for maximum current flow
- > Helps produce positive electrical contact
- > Can be used on all types of batteries, cables, terminals, and anything subject to acid corrosion
- > Spray on, wipe off
- > After cleaning use Penray Battery Protector 7011 to prevent future build-up and corrosion



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 7012 | 12/Case | 15 oz. | Aerosol Can |

Electric Motor Cleaner 7014

- > Non-flammable formula ideal for cleaning electrical systems
- > Easily removes grease, oil, brake fluid, and other contaminants
- > Dries quickly and leaves no residue
- > Designed for electric motors, transformers and machinery



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 7014 | 12/Case | 19 oz. | Aerosol Can |



Gum Solve® - Carburetor and Choke Cleaner 2214



- > Helps restore carburetor performance by removing gum, varnish, carbon deposits and dirt build-up
- > Cleans and frees linkages, cables, and actuators, fuel injection intake systems and PCV valves
- > Safe for oxygen sensors and catalytic converters
- > Not recommended for use on plastic parts or painted surfaces
- > 50 state formula



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 2214 | 12/Case | 15 oz. | Aerosol Can |

Engine Cleaner and Degreaser 4220



- > Cleans car, truck, and marine engines by removing grease, oil and grime
- > Simply spray on and rinse off with water
- > Ideal for use on lawn mowers, marine engines, farm equipment and garage floors
- > Low VOC formulation
- > Safe on all engine components



For complete list of state VOC regulations by product, visit www.penray.com or scan code.



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4220 | 12/Case | 14.5 oz. | Aerosol Can |

Glass Cleaner 84150



- > Professional grade formula designed for vehicle glass cleaning
- > Especially effective in removing sap, tar, bugs, road film/dirt, cheater wax and plasticizer haze
- > Fine mist spray pattern for even application
- > 100% evaporating formula eliminates streaks, film, and light-distorting residues
- > Ammonia free, safe for tinted windows



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 84150 | 12/Case | 18 oz. | Aerosol Can |

80859 Features Convenient Push-On Cone Tip!

Tire Fix Plus® - Non-Flammable Tire Inflator 808's



- > Seals punctures while inflating tire
- > Contains Leak Detective™ so puncture can be found and repaired quickly
- > Prevents corrosion; safe for all wheel types and tire pressure monitor systems (TPMS)
- > Water-based formula for easy cleanup
- > Safe and easy way to temporarily repair a flat tire with no tools required



| Part# | Quantity | Net Weight | Container | Type |
|-------|----------|------------|-------------|-------------|
| 80859 | 6/Case | 12 oz. | Aerosol Can | Cone |
| 80862 | 6/Case | 22 oz. | Aerosol Can | Deluxe Hose |



Brake System Maintenance

Super Heavy Duty Dot 3 Brake Fluid 6000's

- > For disc and drum braking systems
- > Recommended for anti-lock braking systems
- > Meets Federal Motor Vehicle Safety Standard No. 571.116 and SAE 1703
- > Dry boiling point exceeds 450°F
- > Wet boiling point 284°F minimum



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 6012 | 12/Case | 12 fl. oz. | Bottle |
| 6032 | 12/Case | 32 fl. oz. | Bottle |
| 6001 | 4/Case | 1 Gallon | Jug |
| 6005 | 1/Pail | 5 Gallons | Pail |
| 6055 | 1/Drum | 55 Gallons | Drum |

Synthetic Dot 4 Brake Fluid 6400's

- > Premium fluid for extra protection in high performance applications
- > Excellent for high temperature & anti-lock braking systems
- > Provides corrosion protection
- > Meets or exceeds Federal Motor Vehicle Safety Standard (FMVSS) No. 516.116, ISO 4925 and SAE J-1704
- > Dry Boiling Point Exceeds 466°F
- > Wet Boiling Point 311°F minimum



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 6432 | 12/Case | 32 fl. oz. | Bottle |
| 6405 | 1/Pail | 5 Gallons | Pail |

Brake Cleaners

Penray offers a full line of brake cleaners, each specially formulated to meet specific needs. All Penray Brake Cleaners have the following features and benefits:

- > Instantly dissolves and removes grease, oil, brake fluid and other contaminants from disc and drum brake components
- > Superior cleaning power extends beyond brakes
- > Cleans and degreases brake shoes, drums, cylinders, rotors, disc brakes and parts
- > Cleans without disassembly
- > Helps stop brake squeaking and can improve braking performance
- > Leaves no residue
- > Non-staining

A Brake Cleaner Of Choice For Professional Technicians

Non-Chlorinated Quick Dry Brake Cleaner 4500's

- > Fast drying formula
- > Not for sale in CA, UT or OTC States
- > 98% VOC



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4520 | 12/Case | 12.5 oz. | Aerosol Can |
| 4505 | 1/Pail | 5 Gallons | Pail |
| 4554 | 1/Drum | 55 Gallons | Drum |



Non-Chlorinated Brake Cleaner 4600's

- > OTC compliant; Not for sale in CA or UT
- > 45% VOC



See how Penray 4620 compares to the competition, visit www.penray.com/penray-videos or scan to watch video.



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4620 | 12/Case | 14 oz. | Aerosol Can |
| 4605 | 1/Pail | 5 Gallons | Pail |
| 4655 | 1/Drum | 55 Gallons | Drum |

Non-Chlorinated Brake Cleaner 4700's

- > 50 state compliant formula
- > Unlimited use in Southern California
- > 3% VOC



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4720 | 12/Case | 14 oz. | Aerosol Can |
| 4705 | 1/Pail | 5 Gallons | Pail |

Chlorinated Brake Cleaner 4800's

- > Non-Flammable
- > Not for sale in CA or NJ
- > 0% VOC



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4820 | 12/Case | 19 oz. | Aerosol Can |
| 4855 | 1/Drum | 55 Gallons | Drum |

Non-Chlorinated Brake Cleaner 4920

- > 50 state compliant formula
- > California Compliant: Can use up to 11.5 cans/day in CA per location
- > Maximum effectiveness for CA
- > Orange scented
- > 10% VOC



Fresh Orange Scent!



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 4920 | 12/Case | 14 oz. | Aerosol Can |



2-Step Fuel Injection and Induction Cleaning Kit 2102

- > Provides total fuel system cleanup, including fuel injectors and intake combustion chambers
- > Helps restore MPG and removes carbon and other deposits
- > Formulated with powerful detergents for maximum performance
- > Use with 303-IV, SP302BC or SP300FI Tools
- > For professional use only

Step 1: 2312 Intake Valve Deposit Cleaner

Can be used with vacuum or through the rail for intake system cleaning, removing carbon deposits on valves. See page 2 for full product details.

Step 2: 2112 Fuel Injector Cleaner

Add to fuel tank. See page 1 for full product details.

* Available with additional products in kits 2103 and 8101



Fuel Injectors



Dirty



Clean

Fuel injectors work with small openings that can easily become clogged. The smallest deposits on these openings can have a large negative effect on injector spray pattern. Keeping injectors clean is critical to maximize fuel economy and engine performance.



Scan for video demo

<http://bit.ly/1Gld9H0>



| Part# | Quantity | Container |
|-------|----------|-----------|
| 2102 | 10/Case | Carton |



3-Step Fuel Injection and Induction Cleaning Kit 2103

- > Provides all the benefits of 2102, plus cleans and renews engine oil performance
- > Use with 303-IV, SP302BC or SP300FI Tools
- > For professional use only

Step 1: 2312 Intake Valve Deposit Cleaner

Can be used with vacuum or through the rail for intake system cleaning, removing carbon deposits on valves. See page 2 for full product details.

Step 2: 2112 Fuel Injector Cleaner

Add to fuel tank. See page 1 for full product details.

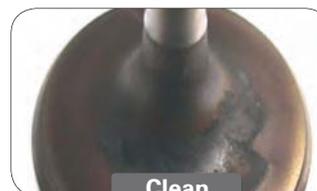
Step 3: 3016 Motor Pep Tune-Up Treatment

Add to engine oil. See page 3 for full product details.

Intake Valves



Dirty



Clean

Dirt, varnish build-up, corrosion and carbon deposits restrict the flow of air and fuel to your fuel-injected engine.

Extend Vehicle Life!



| Part# | Quantity | Container |
|-------|----------|-----------|
| 2103 | 8/Case | Carton |



3-Step Fuel Injection and Air Intake Cleaning Kit 8101



- > All the benefits of 2102, plus cleans air intake
- > Use with 303-IV, SP302BC or SP300FI Tools
- > For professional use only

Step 1: 2312 Intake Valve Deposit Cleaner

Can be used with vacuum or through the rail for intake system cleaning, removing carbon deposits on valves. See page 2 for full product details.

Step 2: 2112 Fuel Injector Cleaner

Add to fuel tank. See page 1 for full product details.

Step 3: 2412 Air Intake Cleaner

Spray directly into air intake system. See page 2 for full product details.



Throttle Body



The throttle body connects the air intake to the engine. It contains the throttle control plate which opens to direct air flow into the engine. Maintaining a clean throttle body will prevent carbon buildup which causes rough idle and poor performance.

Maximize Vehicle Performance!



| Part# | Quantity | Container |
|-------|----------|-----------|
| 8101 | 4/Case | Carton |



Most Comprehensive Fuel System Cleaning!

3-Step Premium Fuel System Cleaning Kit 2503

- > Thorough upper engine cleaning through the rail, vacuum, and fuel system
- > Cleans combustion chamber deposits
- > Helps restore fuel economy
- > Increases power and performance
- > Use with 303-IV, SP302BC or SP300FI (vacuum) and SP305DC or SP304TR (rail) Tools
- > For professional use only

Steps 1 & 2: 2312 Intake Valve Deposit Cleaner

Can be used with vacuum or through the rail for intake system cleaning, removing carbon deposits on valves. See page 2 for full product details.

Step 3: 2216 Total Fuel System Cleaner

Add to fuel tank to clean fuel injectors, filter and combustion chamber. See page 1 for full product details.

Combustion Chamber



Carbon deposits build up in the combustion chambers causing pre-ignition, knock and increase the octane requirement of your engine.

Helps Restore Fuel Economy!



| Part# | Quantity | Container |
|-------|----------|-----------|
| 2503 | 6/Case | Carton |



2-Step Engine Re-Charge Kit 7502

- > Cleans the entire oil system
- > Reduces engine heat and wear to prolong the life of engine components
- > Boosts detergents and additives to extend engine oil life
- > Extends engine component life
- > Maintains engine performance and efficiency
- > Prevents corrosion and keeps engine clean
- > For professional use only

Step 1: 7512 Oil System Cleaner

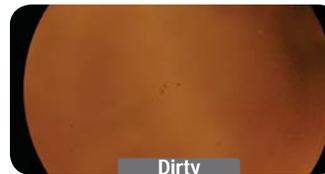
Add to engine oil and run for 5 minutes before draining. See page 3 for full product details.

Step 2: 3112 Engine Oil Treatment

Add to crankcase after draining. See page 2 for full product details.



Engine Oil



Dirty



Clean

Exposure to internal combustion and soot wear down motor oil, making it less effective. Once it starts to wear down, the degraded protection produces tiny metallic particles which grind against surfaces causing wear, friction, poor efficiency and wasted power.



Scan for video demo

<https://youtu.be/qbBDeJNrZ0E>



| Part# | Quantity | Container |
|-------|----------|-----------|
| 7502 | 10/Case | Carton |



2-Step Power Steering Fluid Tune-Up Kit 3902

- > Cleans and replenishes power steering systems using conventional fluid
- > Decreases heat and friction to prolong component life
- > Reduces power steering fluid pump noise
- > Meets specs of GM, Ford, Chrysler and most domestic and foreign auto manufacturers*
- > Use with PSX3000, PSX2000, or PSX2500 fluid exchange machine
- *Refer to PSF application guide for make/model specifications

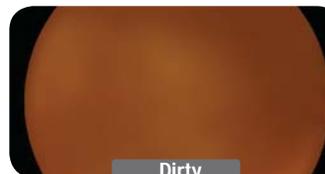
Step 1: 3210 Power Steering Fluid System Flush

Use a fluid exchange machine, remove 12oz of PSF, add 3210, and circulate for 5 minutes. See page 4 for full product details

Step 2: 3964 Premium Power Steering Fluid

Using a fluid exchange machine, remove all PSF, and refill system with 3964. See page 4 for full product details.

Power Steering Fluid



Dirty



Clean

Deterioration in power steering fluid is easily identified by a change in color. Clean power steering fluid optimizes steering performance and protects all the system components.



Scan for video demo

<https://youtu.be/IEFGjBNP184>



| Part# | Quantity | Container |
|-------|----------|-----------|
| 3902 | 6/Case | Carton |

2-Step Transmission Tune-Up Kit 6537

- > Cleans and conditions entire transmission system
- > Restores smooth shifting
- > Conditions seals and O-rings; reduces friction and wear
- > Frees sticky valves
- > Use with TSD440 or TSD450 fluid exchange machines
- > For Professional Use Only

Step 1: 6533 Professional Automatic Transmission Flush
Use fluid exchange machine, remove 12oz of ATF, add 6533, circulate for 10 minutes. See page 5 for full product details.

Step 2: 6536 Universal ATF Protectant

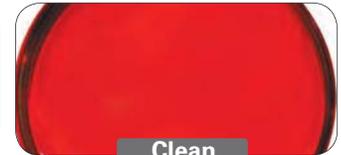
Synthetic technology helps reduce micro-pitting on internal gears and components. Add to newly filled ATF for conditioning. Only available in kit.



Transmission Fluid



Dirty



Clean

As fluid ages, contaminants build up and viscosity breaks down leaving the transmission unprotected. New fluid protects the sophisticated technology in present day transmissions. Clean fluid helps to reduce component failure while improving performance and increasing vehicle longevity.



Scan for video demo

<https://youtu.be/o10c3zHnsRw>



| Part# | Quantity | Container |
|-------|----------|-----------|
| 6537 | 10/Case | Carton |



2-Step Cooling System Re-Charge Kit 1102

- > Safely cleans the entire cooling system
- > Designed for automotive coolants
- > Eliminates overheating and scale build-up
- > Inhibits rust and scale formation
- > Use with VACFILL3 or CVAC3 fluid exchange machine
- > For Professional Use Only

Steps 1: 1212 Cool Prep Cooling System Cleaner

Removes, dissolves and disperses deposits including corrosion, sludge, and oil. Pour entire contents into radiator and run on idle for 10-15 minutes before draining. Only available in kit.

Step 2: 1112 Cool-Tec® 2 Cooling System Treatment

Add to coolant during/after re-filling system. Stabilizes and maintains coolant pH levels and prevents corrosion and scale formation. See page 5 for full product details.

Radiator



Scale



Rust

Coolant is very important, it prevents the #1 cause of breakdowns - cooling system failures. A clean and stable cooling system will prevent overheating and prolong the life of all cooling system components.



| Part# | Quantity | Container |
|-------|----------|-----------|
| 1102 | 10/Case | Carton |



Preventive Maintenance Protection Plan

Protection For Your Vehicle For The Road Ahead!

Lifetime Preventive Maintenance Protection Plan
PENRAY

| 1 Single Shield Protection Plan | 2 Double Shield Protection Plan | 3 Triple Shield Protection Plan |
|---|---|---|
| Protects up to 36,000 Miles! Total Coverage Value: Up to \$4,000.00. Covers vehicle between 0-36,000 miles. | Protects up to 50,000 Miles! Total Coverage Value: Up to \$2,000.00. Covers vehicle between 36,001-50,000 miles. | Protects up to 75,000 Miles! Total Coverage Value: Up to \$1,000.00. Covers vehicle between 50,001-75,000 miles. |
| INCLUDED SERVICES: Fuel System Cleaning Service (2102, 2103, 2503, 8101) Engine Re-Charge Service (7502) Cooling System Re-Charge Service (1102) | | Power Steering Fluid Tune-Up Service (3902) Automatic Transmission Tune-Up Service (6537) |

* Penray's Protection Plan will go into effect after 500 miles of the first Penray Preventive Maintenance Service.
* Fuel System and Engine Services must maintain a 15,000 mile service interval in order for each Single, Double and Triple Shield Protection Plans to be viable.
* Cooling, Power Steering and Transmission services must maintain a 30,000 mile service interval in order for each Single, Double, and Triple Shield Protection Plans to be viable.

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All Penray Professional Service Kits Are Backed By Our Lifetime Preventive Maintenance Protection Plan



Single Shield Protection - Protects up to 36,000 miles! Total coverage up to \$4,000



Double Shield Protection - Protects up to 50,000 miles! Total coverage up to \$2,000



Triple Shield Protection - Protects up to 75,000 Miles! Total coverage up to \$1,000

Intake Valve Cleaning Kit 303IV



Simple tool to inject liquid cleaner into a vacuum line. Can be used on kits: 2102, 2103, and 8101, or with product 2312 Intake Valve Deposit Cleaner.

| Part# | Quantity |
|-------|----------|
| 303IV | 1/Case |

Fuel Injection Canister SP300FI

Injects liquid cleaner into a vacuum line. Can be used on kits: 2102, 2103, or with product 2312 Intake Valve Deposit Cleaner.



| Part# | Quantity |
|---------|----------|
| SP300FI | 1/Case |

Pro Sure Shot Sprayer SP301BC

Easily converts any aerosol into a liquid.



| Part# | Quantity |
|---------|----------|
| SP301BC | 1/Case |

Fuel Injection Cleaning Canister SP302BC

Injects liquid cleaner into a vacuum line. This tool is to be used through the vacuum only. Can be used on kits: 2102, 2103 and 8101.



| Part# | Quantity |
|---------|----------|
| SP302BC | 1/Case |

Through-The-Rail Fuel Canister w/S-Tool SP304TR

Cleans through the rail (GM, Ford, Chrysler)



| Part# | Quantity |
|---------|----------|
| SP304TR | 1/Case |

4PC Adapter Set for SP304TR SP304TRA

For SP304TR (GM, FORD, CHRYSLER), for through-the-rail cleaning.



| Part# | Quantity |
|----------|----------|
| SP304TRA | 1/Case |

Complete Adapter Set SP304TRB

Complete adapter set for SP304TR and SP305DC.



| Part# | Quantity |
|----------|----------|
| SP304TRB | 1/Case |

Dual Canister Thru-the-Rail & Intake Cleaner SP305DC

Injects liquids through the rail and also can be used with S-Tool. Can be used on kits: 2102, 2103, 2503 and 8101 or with product 2312 Intake Valve Deposit Cleaner.



| Part# | Quantity |
|---------|----------|
| SP305DC | 1/Case |



Fluid Exchange Equipment

For More Information On These Machines Contact Flo-Dynamics Ph. 800-303-5874 • www.flodynamics.com

Transmission Exchange Dipstick Only TSD440

| Part# | Quantity |
|--------|----------|
| TSD440 | 1/Unit |



Transmission Exchange In-Line & Dipstick TSD450

| Part# | Quantity |
|--------|----------|
| TSD450 | 1/Unit |



Power Steering Flush PSX2000

| Part# | Quantity |
|---------|----------|
| PSX2000 | 1/Unit |



Power Steering Flush with Cart PSX2500

| Part# | Quantity |
|---------|----------|
| PSX2500 | 1/Case |



Power Steering Flush with Cart & Pendant PSX3000

| Part# | Quantity |
|---------|----------|
| PSX3000 | 1/Case |



Coolant Vacuum Fill VACFILL

| Part# | Quantity |
|---------|----------|
| VACFILL | 1/Case |



Coolant Vacuum Fill and Flush CVAC3

| Part# | Quantity |
|-------|----------|
| CVAC3 | 1/Case |



Brake Flush BRAKEMATE

| Part# | Quantity |
|-----------|----------|
| BRAKEMATE | 1/Case |



Nitrogen Generator TYGER3

| Part# | Quantity |
|--------|----------|
| TYGER3 | 1/Case |



Automatic AC Machine CCST288

| Part# | Quantity |
|---------|----------|
| CCST288 | 1/Case |



Auto AC Machine w/ Printer & Automatic Oil Inj. CCST388

| Part# | Quantity |
|---------|----------|
| CCST388 | 1/Case |



Maximize Sales With These Additional Point Of Purchase Items!

- Flyers
- Service Cards
- Counter Mats

Download at www.penray.com or ask your sales rep. for more information



Diesel Fuel Prep™ 81012

- > Concentrated diesel fuel conditioner for auto, light duty engines and generators
- > Cleans fuel injectors to maximize fuel economy and restore power
- > Enhances lubricity to improve injector life
- > Improves overall performance
- > Prevents corrosion
- > Lifts cetane up to 8 numbers for easier starts
- > One bottle treats 20 gallons for an 8 cetane* number lift, 40 gallons for a 4 number lift
- > Biodiesel compatible and ULSD compliant



BioReady™



| Part# | Quantity | Net Contents | Container | Treat Rate |
|-------|----------|--------------|-----------|---|
| 81012 | 6/Case | 12 fl. oz. | Bottle | 20-40 Gallons *Treat 20 gallons for 8 number lift, 40 gallons for 4 number lift. |

Winter Cetane™ - Diesel Anti Gel 82012

- > Prevents water separation and ice crystal formation
- > Cleans injectors to maximize fuel economy
- > Lifts Cetane up to 6* numbers to increase fuel quality and improve cold weather starting
- > Improves cold weather operability by as much as 30°F
- > Prevents fuel gelling in temps as low as -50°F
- > ULSD compliant
- > Treats 20 to 40 gallons*



| Part# | Quantity | Net Contents | Container | Treat Rate |
|-------|----------|--------------|-----------|---|
| 82012 | 6/Case | 12 fl. oz. | Bottle | 20-40 Gallons *Treat 20 gallons for 6 number lift, 40 gallons for 3 number lift. |

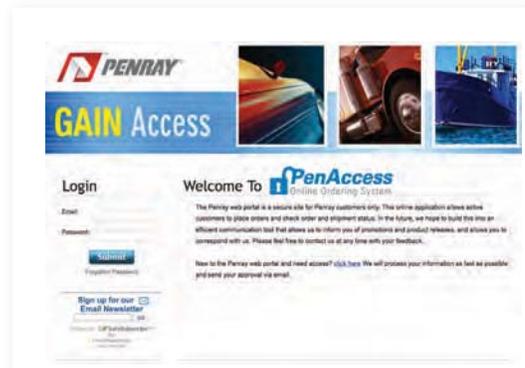
Diesel Engine Oil Treatment 83112

- > Concentrated oil treatment replenishes diesel oil additives to ensure performance during extended change intervals
- > Maximum strength formula helps protect new and old engines
- > Disperses sludge to keep engine clean
- > Neutralizes acid deposits/build-up to prevent corrosion
- > Helps prevent excessive wear, reduces friction and heat to prolong life of engine components
- > To fortify conventional diesel engine oils, add one bottle at each oil change
- > For high mileage engines with advanced wear, excessive oil burning or heavy deposits, use two bottles
- > **Will not cause stiction**



| Part# | Quantity | Net Contents | Container | Treat Rate |
|-------|----------|--------------|-----------|------------|
| 83112 | 6/Case | 12 fl. oz. | Bottle | 15 Quarts |

Place Your Order Online!



Save time and place orders via our online order system, PenAccess. This tool allows you to place your orders 24/7, track your orders through the system, and view records of past orders! Enter PenAccess through www.penray.com to set up your account and begin ordering today.

See Page 26 For Diesel Fuel Additive Benefit Chart



Cetane Enhancer



Cleaner



Emergency Treatment



Winter Protection



Effect on Water

POW-R 365® - 5 in 1 Diesel Cleaner & Treatment 207064



- > Cleans injectors to improve fuel economy
- > Enhances lubricity to prevent excessive wear
- > Prevents corrosion to protect engine components
- > Lifts Cetane 1 number increasing fuel quality, power, and cold weather starting
- > Provides up to 20 degree reduction in cold filter plug point to prevent gelling*
- > ULSD compliant & Biodiesel compatible

* For temperatures below -10°F use Winter Pow-R® Plus

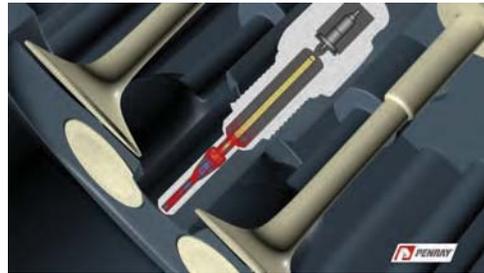


BioReady™



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|-------------|
| 207064 | 6/Case | 64 fl. oz. | Bottle | 250 Gallons |

5 Great Benefits!



Learn how POW-R 365 cleans injectors to improve fuel economy! Visit https://youtu.be/ye_FJBnhRWE or scan code to watch video.

**ONE BOTTLE,
ONE TRUCK!**

Fuel Prep™ Biocide 1002's



- > Fast acting single dose biocide
- > Stops 90% of microbial activity in as little as 6 hours
- > Protects the entire fuel system from corrosion caused by microbial growth
- > Helps prevent fuel filter plugging to reduce maintenance costs and prevent downtime
- > Stops microbial activity in the storage tank before the fuel works its way into a vehicle
- > Effective in all diesel fuels, including ULSD and Biodiesel

BioReady™

* Follow with Fuel Prep™ Diesel Fuel Conditioner to maintain a clean and healthy fuel system



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|--------------------------------|
| 100216 | 12/Case | 1 Pint | Bottle | 1 Pint treats 1,250 Gallons |
| 100201 | 4/Case | 1 Gallon | Jug | 1 Gallon treats 10,000 Gallons |

- Fuel
- Rag Layer
- Water
- Sediment



How do bugs grow? Fuel storage tanks are a perfect breeding ground for microorganisms (bugs). The bugs have an abundant food supply of hydrocarbons in the fuel. The "rag layer" indicated above is an emulsion of water and fuel supporting growth of bugs. Once the bugs begin to grow they double in population every 20 minutes. As the bugs multiply they produce waste products. The waste products produce sludge, acids and other harmful by-products impacting the fuel and the storage tank. Eventually a black, brown or green slime will form clogging filters, corroding metal and causing hoses to swell and blister.

See Page 26 For Diesel Fuel Additive Benefit Chart



Cetane Enhancer



Cleaner



Emergency Treatment



Winter Protection



Effect on Water



Fuel Doctor Program



A Year-Round Preventative Diesel Fuel Plan To Treat And Maintain Healthy Fuel Storage Tanks

The Penray Fuel Doctor Program offers complete, expert fuel testing and analysis followed up by our Fuel Doctors with customized treatment plans.

WHY?

- Untreated fuel leads to significant problems in storage tanks including separation, tank corrosion, oxidation, sludge, microbial growth and sediment
- Impact is clogged fuel filters, expensive clean out costs, leaking tanks, premature tank replacement, unhappy customers and lost profits
- These issues can be very difficult to detect and require routine testing and tank maintenance
- The Penray Fuel Doctor plan ensures your fuel and storage tanks are at optimum health



WHEN?

Penray recommends year-round maintenance

- Spring: test for microbial activity
- Fall: test for cold weather properties and microbiological activity

Typical warning signs of fuel issues include:

- Slow flow rate, clogged filters, sulfurous odor, slime coating on metal parts or blistered hoses
- Any of these symptoms require immediate attention



HOW?

- Contact your regional Fuel Doctor or call Penray at Ph. 800.323.6329 x5000
- Schedule a fuel check-up
- Penray Fuel Dr. will visit your site to collect samples for analysis
- Results will be available within 10 days
- Your Penray Fuel Dr. will discuss the results, recommend treatment and ensure your fuel is healthy

LEARN MORE



<http://bit.ly/FuelDoc>

• See Page 25 For Fuel Test Kits



Diesel Fuel Treatments and Cleaners

Fuel Prep™ - Diesel Fuel Conditioner 1000's

- > Anti-oxidant technology stabilizes fuel
- > Restores fuel economy by cleaning injectors
- > Enhances lubricity to prevent wear
- > Protects against corrosion
- > Helps eliminate conditions conducive to bacterial and fungal growth
- > Separates water from fuel for easy collection
- > ULSD compliant & Biodiesel compatible



BioReady™



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|--------------------------------|
| 100012 | 12/Case | 12 fl. oz. | Bottle | 12 oz. treats 50 Gallons |
| 100032 | 12/Case | 32 fl. oz. | Bottle | 32 oz. treats 250 Gallons |
| 100005 | 1 | 5 Gallons | Pail | 5 Gallons treats 7,500 Gals. |
| 100055 | 1 | 55 Gallons | Drum | 55 Gallons treats 82,500 Gals. |

Fuel Prep™ - Diesel Fuel Conditioner 2012's

- > Concentrated version of Fuel Prep for bulk fuel treatment
- > Anti-oxidant technology stabilizes fuel
- > Restores fuel economy by cleaning injectors
- > Enhances lubricity to prevent wear
- > Protects against corrosion
- > Helps eliminate conditions conducive to bacterial and fungal growth
- > Separates water from fuel for easy collection
- > ULSD compliant & Biodiesel compatible



BioReady™



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|-------------------------------|
| 201201 | 4/Case | 1 Gallon | Jug | 1 Gallon treats 12,500 Gals. |
| 201205 | 1 | 5 Gallons | Pail | 5 Gallons treats 62,500 Gals. |

Pow-R Performance® - Diesel Fuel Enhancer 208005

- > Anti-oxidant technology stabilizes fuel
- > Cleans injectors to improve fuel economy
- > Enhances Lubricity to prevent excessive wear
- > Prevents corrosion to protect engine components
- > Lifts Cetane 1 number increasing fuel quality, power, and cold weather starting
- > ULSD compliant & Biodiesel compatible



BioReady™



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|------------------------------|
| 208005 | 1 | 5 Gallons | Pail | 5 Gallons treats 7,500 Gals. |

Total Diesel Fuel System Cleaner 1050's

- > Extremely powerful fuel system cleaner
- > Cleans and helps prevent fuel filter and injector plugging
- > Formulated to dissolve and disperse "Asphaltenes" (black fuel)
- > Helps improve lubricity and prevent corrosion
- > Attacks extreme cases of dirt, grime and sludge
- > ULSD Compliant & Biodiesel compatible



BioReady™

Premium Cleaner Helps Restore Fuel Economy!



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|--------------------------------|
| 105032 | 12/Case | 32 fl. oz. | Bottle | 32 oz. treats 250 Gallons |
| 105005 | 1 | 5 Gallons | Pail | 5 Gallons treats 7,500 Gallons |
| 105055 | 1 | 55 Gallons | Drum | 55 Gallons treats 82,500 Gals. |

See Page 26 For Diesel Fuel Additive Benefit Chart



Cetane Enhancer



Cleaner



Emergency Treatment



Winter Protection



Effect on Water



Cold Weather Diesel Treatments

Patented Technology For BioDiesel to Keep You On The Road In Cold Weather!

Winter Pow-R® Plus - Diesel Anti-Gel 2020's



- > Utilizes HAFI®, a hybrid polymer technology to:
 - Prevent fuel gelling
 - Prevent wax crystal formation
- > Reduces cold filter plug point by as much as 30°F
- > Contains cetane and restores fuel economy
- > Helps improve lubricity and prevent corrosion
- > Prevents ice crystal formation
- > ULSD compliant & Biodiesel compatible

Lowest Cost Per Treated Gallon!



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|--------------------------------|
| 202012 | 12/Case | 12 fl. oz. | Bottle | 12 oz. treats 50 Gallons |
| 202032 | 12/Case | 32 fl. oz. | Bottle | 32 oz. treats 250 Gallons |
| 202055 | 1 | 55 Gallons | Drum | 55 Gallons treats 82,500 Gals. |

Winter Pow-R® Plus - BioDiesel Treatment 2026's



- > Utilizes HAFI®, a hybrid polymer technology to:
 - Prevent fuel gelling
 - Prevent wax crystal formation
- > Reduces cold filter plug point by as much as 30°F
- > Contains cetane and restores fuel economy
- > Helps improve lubricity and prevent corrosion
- > Prevents ice crystal formation
- > US Patent #8,349,033 - ULSD compliant & Biodiesel compatible



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|--------------------------------|
| 202612 | 12/Case | 12 fl. oz. | Bottle | 12 oz. treats 50 Gallons |
| 202632 | 12/Case | 32 fl. oz. | Bottle | 32 oz. treats 250 Gallons |
| 202605 | 1 | 5 Gallons | Pail | 5 Gallons treats 7,500 Gals. |
| 202655 | 1 | 55 Gallons | Drum | 55 Gallons treats 82,500 Gals. |

Compare The Value Of Penray Winter Pow-R® Plus Against Any Other Brand.

Penray Offers The Lowest Cost Per Treated Gallon!

| | COST | ÷ | TREAT RATE | = | COST/GAL. |
|-------------|------|---|------------|---|-----------|
| 202032 | \$ | ÷ | 250 GALS. | = | \$ |
| Other Brand | \$ | ÷ | | = | \$ |

Super concentrated product to give you the most for your money. Compare our products to any other. Do you really get all this anywhere else?

ONE BOTTLE, ONE TRUCK!

| | Pour Point | CFPP |
|---|------------|-------|
| Untreated Diesel Fuel | -15°F | -4°F |
|  Penray 202032 | -50°F | -24°F |

| | Pour Point | CFPP |
|---|------------|------|
| Untreated Biodiesel | -5°F | -2°F |
|  Penray 202632 | -35°F | -6°F |

See Page 26 For Diesel Fuel Additive Benefit Chart

- C** Cetane Enhancer
- CL** Cleaner
- E** Emergency Treatment
- W** Winter Protection
- WA** Effect on Water

Winter Blend - Diesel Fuel Treatment 2030's

- > Utilizes HAFI®, a hybrid polymer technology to:
 - Prevent wax crystal formation
 - Prevent fuel gelling
- > Reduces cold filter plug point by as much as 30°F
- > Helps restore fuel economy
- > Helps improve lubricity and prevent corrosion
- > Prevents ice crystal formation
- > Highly concentrated for bulk fuel tanks
- > ULSD compliant & Biodiesel compatible



BioReady™



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|---------------------------------|
| 203025 | 2/Case | 2.5 Gallons | Jug | 2.5 Gallons treats 7,500 Gals. |
| 203055 | 1 | 55 Gallons | Drum | 55 Gallons treats 165,000 Gals. |

Winter Thaw® - Emergency Diesel Treatment 2021's

- > Emergency treatment de-ices frozen filters and fuel
 - Use one quart per 25 gallons
 - Use 1 gallon per 100 gallons
- > Prevents ice crystal build-up
- > Prevents fuel filter icing (use one quart per 125 gallons)
- > Reduces fuel line and filter clogging
- > Especially effective in biodiesel blended fuels
- > Extends filter life
- > Prevents water separation from fuel
- > ULSD Compliant & Biodiesel compatible



Works Instantly!



BioReady™



| Part# | Quantity | Net Contents | Container | Treat Rate |
|--------|----------|--------------|-----------|------------------------------|
| 202132 | 12/Case | 32 fl. oz. | Bottle | 32 oz. treats 125 Gallons |
| 202101 | 4/Case | 1 Gallon | Jug | 1 Gallons treats 500 Gallons |



Winterizing Your Diesel Engine?

For more info scan the code to left with your smart phone or go to <http://bit.ly/WinterDiesel>



Diesel Fuel Test Kits

Microbial Diesel Fuel Test BUGTEST6

Dip slide test shows bacteria and mold contamination in fuel within 48 hours



| Part# | Quantity |
|----------|----------|
| BUGTEST6 | 6/Case |

Diesel Fuel Winter Test Kit WINTEST1

Fuel test for cold weather protection properties: Cold Filter Plug Point (CFPP), Pour Point, and Cloud Point



| Part# | Quantity |
|----------|----------|
| WINTEST1 | 1/Case |

Learn About Our Fuel Doctor Program On Page 22!



Penray Diesel Fuel Additives

| Best For: | | All Season | | | | Winter | | | Light Duty | |
|------------------------|---------------------------|-------------------|------------------|-------------------|----------------------------------|-------------------|--------------------------|-------------|---------------|------------------|
| Product Name | POW-R 365 | POW-R Performance | Fuel Prep | Fuel Prep Biocide | Total Diesel Fuel System Cleaner | Winter POW-R Plus | Winter Blend Concentrate | Winter Thaw | Winter Cetane | Diesel Fuel Prep |
| Part Numbers: | 207064 | 208005 | 1000XX 2012XX | 1002XX | 1050XX | 2020XX 2026XX | 2030XX | 2021XX | 82012 | 81012 |
| Features: | | | | | | | | | | |
| Cetane Enhancer: | 3-8 numbers per bottle | | | | | | | | X | X |
| | One number per bottle | X | X | | | | | | | |
| | Contains Cetane Enhancer | | | | | X | X | | | |
| Winter Protection: | Up to 30° CFPP reduction | | | | | X | X | | X | |
| | Up to 20° CFPP reduction | X | | | | | | | | |
| | Emergency Treatment | | | | | | | X | | |
| | Disperses Wax | X | | | | X | X | | X | |
| Cleaner: | Cleans Up | X | X | X | X | | | | X | X |
| | Helps Keep Clean | | | | | X | X | | | |
| Effect on Water: | Water Neutral | X | | | X | X | X | | X | |
| | Disperses Water | | | | | | | X | | |
| | Displaces Water | | X | X | | X | | | | X |
| Additional Benefits: | Enhances Lubricity | X | X | | | X | X | X | | X |
| | Corrosion Control | X | X | X | X | X | | | | X |
| | Helps Control Microbes* | | X | X | | | | | | |
| | Eliminates Microbes | | | | X | | | | | |
| | Stabilizer / Anti-Oxidant | | X | X | | | | | | |

*Eliminates conditions conducive to microbial growth



Cold Weather Products

Starting Fluid #5301 And Premium Starting Fluid 5315

- > 5301 Starting Fluid designed for gasoline engines
- > 5315 Premium Starting Fluid designed for diesel engines
- > Produces quick, smooth starting of engines down to -70°F
- > Works under extreme cold conditions
- > Contains upper cylinder lubricant and corrosion inhibitors
- > Saves battery and ignition during cold weather



| Part# | Quantity | Net Weight | Container | Ether Content |
|-------|----------|------------|-------------|---------------|
| 5301 | 12/Case | 11 oz. | Aerosol Can | Standard |
| 5315 | 12/Case | 11 oz. | Aerosol Can | High |

Windshield Washer Antifreeze 5000's

- > Concentrated formula protects in temperatures as low as -30°F
- > Cleans and de-ices windshield and wiper blades
- > Saves expense of shipping water



Protects To -30°F!



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 5032 | 12/Case | 32 fl. oz. | Bottle |
| 5005 | 1 | 5 Gallons | Pail |
| 5055 | 1 | 55 Gallons | Drum |

Air Brake Antifreeze 5600's

- > Protects air lines from moisture and freezing
- > Air dryer and rust/corrosion inhibitor
- > High purity formula provides protection to system components



| Part# | Quantity | Net Contents | Container |
|-------|----------|--------------|-----------|
| 5632 | 12/Case | 32 fl. oz. | Bottle |
| 5601 | 4/Case | 1 Gallon | Jug |
| 5655 | 1 | 55 Gallons | Drum |

Nox-Ice - Gas Line Antifreeze 5113

- > For gasoline and diesel engines
- > Unique formula absorbs twice as much moisture as methanol based products
- > Excellent in all fuel injected engines
- > Ensures trouble free winter starts



| Part# | Quantity | Net Contents | Container | Treat Rate |
|-------|----------|--------------|-----------|--------------------------|
| 5113 | 12/Case | 12 fl. oz. | Bottle | 12 oz. treats 25 Gallons |

Windshield Spray De-Icer 5216

- > Defrosts and melts ice instantly
- > Thaws frozen locks
- > Sprays in even the coldest temperatures (-25°F)
- > Safe for all car finishes
- > Harmless to painted rubber components



| Part# | Quantity | Net Weight | Container |
|-------|----------|------------|-------------|
| 5216 | 12/Case | 12.3 oz. | Aerosol Can |

Cooling System Filters

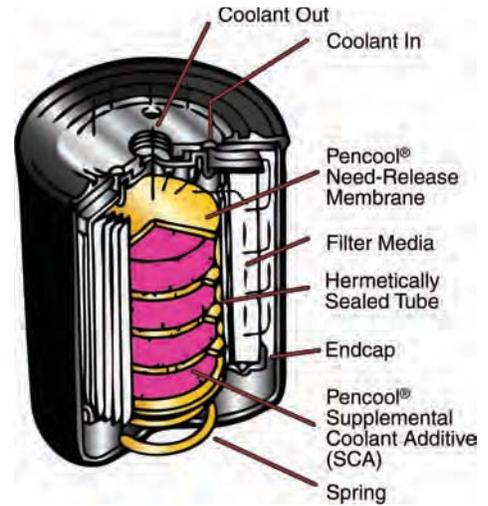
Need Release® - Extended Service Cooling System Filters & Element

- > Releases Supplemental Coolant Additives (SCA's) into the cooling system **only** when needed
- > Triple layer **synthetic** media filtration lasts 150K miles, 15 months, or 3K hours
- > Unique design senses the corrosivity of the coolant, keeping the system protected at all times
- > Extended service saves on labor costs and reduces filter inventory
- > Designed for use with conventional coolant



Tri-Lingual For Sale In USA & Canada!

| Part# | Quantity | Treats | Specifications |
|-----------|-------------|---------------|---|
| NF2088SM | 12/ Case | 8-20 Gals. | Standard filter bracket including Detroit Diesel, Caterpillar, Cummins, International engines. Thread size 11/16 X 16, OD 3.69" |
| NF20891SM | 12/ Case | 8-20 Gals. | Mack Mid-Liner, Mack V-8, 65, and Econo-Dyne series engines. Thread size 3/4 X 20, OD 3.69" |
| NF2095SM | 12/ Case | 8-20 Gals. | Cummins ISX engine. Thread size M36 X 2.0, OD 3.75" |
| NF2096SM | 12/ Case | 8-20 Gals. | Mack MP7, MP8, Volvo D11, D13, and D16. Thread size M16 X 1.5, OD 3.69" |
| NF3088SM | 12/ Case | 8-20 Gals. | DD13, DD15, DD16. Drop-in cartridge |



Pencool® 3000 - Cooling System Filter with Stabil-Aid® NF3000



- > Filter with one pint equivalent (single charge) of Pencool® 3000 (Supplemental Coolant Additive)
- > Includes cooling system corrosion inhibitor and stabilizer
- > Stops coolant gel formation and helps control foaming
- > Recommend coolant testing/ filter replacement every 30,000 miles
- > Compatible with conventional coolants



Same Great Pencool® Product In A Filter!

| Part# | Quantity | Treats | Specifications |
|--------|-------------|---------------|--|
| NF3000 | 12/ Case | 8-20 Gals. | Standard filter bracket- Detroit Diesel, Caterpillar, Cummins, International, etc. engines. Thread size 11/16 X 16, OD 3.69" |

Synthetic Media Blank Coolant Filter NF2999SM & Element NF3999SM



- > Triple layer **synthetic** media filtration
- > Long life filter lasts 150K miles, 15 months, or 3K hours
- > For use with ELC (Extended Life Coolants) and conventional coolants
- > Features inner shell with durable epoxy coating to prevent internal filter corrosion



| Part# | Quantity | Treats | Specifications |
|----------|-------------|---------------|--|
| NF2999SM | 12/ Case | 8-20 Gals. | Standard filter bracket- Detroit Diesel, Caterpillar, Cummins, International, etc. engines. Thread size 11/16 X 16, OD 3.69" |
| NF3999SM | 12/ Case | 8-20 Gals. | DD13, DD15, DD16. Drop-in cartridge. |

Standard Filter Bracket NFA2092

> Fits thread size 11/16 X 16, OD 3.69"



| Part# | Quantity |
|---------|----------|
| NFK2092 | 1 |

Cummins ISX Filter Adapter NFA1000

> For use with NF2088SM, NF3000 or NF2999SM filters



| Part# | Quantity |
|---------|----------|
| NFA1000 | 1 |

Volvo Filter Adapter VFA1000

> For use with NF2088SM, NF3000 or NF2999SM filters



| Part# | Quantity |
|---------|----------|
| VFA1000 | 1 |

Coolant Lab Test Kit PTK103

> Expert lab coolant analysis



| Part# | Quantity |
|--------|----------|
| PTK103 | 1 |

Expert
Test
Data
Report

| Test performed | Indications | This sample |
|----------------------------------|-------------------------------------|-------------|
| Color and Appearance * | helps indicate inhibitor family | Green |
| pH by ASTM D1287 | Varies by inhibitor Family | 8.72 |
| % Antifreeze from chart * | 40-50% is generally recommended | 52 |
| Freezing Point* by ASTM D3321 | A factor of glycol type and content | -40 |
| | Corrosion Inhibitors | |
| Boron (ug/g Si) ASTM D 6130 | pH buffer | 167 |
| Molybdenum (ug/g Me) ASTM D 6130 | conventional corrosion inhibitor | 2 |
| Nitrates (mg/l) by ASTM D 5827 | prevents liner cavitation | 1224 |
| Phosphate (mg/l) by ASTM D 5827 | conventional corrosion inhibitor | 399 |
| Silicon (ug/g Si) by ASTM D 6130 | conventional corrosion inhibitor | 38 |
| | conventional corrosion inhibitor | 111 |

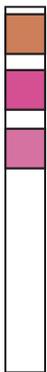
Refractometer CTX1, CTX2

> Tests Coolant freezing points of Ethylene & Propylene Glycol



| Part# | Quantity | Type |
|-------|----------|------------|
| CTX1 | 1 | Centigrade |
| CTX2 | 1 | Fahrenheit |

Coolant Test Strips



- Top Pad: Percent Glycol
- Middle Pad: Nitrite ppm
- Bottom Pad: ELC pass/fail

Universal 3-Way Test Strips TS200

- > For use in nitrated heavy duty coolants, including extended life coolant (ELC)
- > Accurate results in 2 minutes
- > Tests for dilution/contamination and chemical protection in extended life coolant
- > Quick and accurate results in minutes
- > Effectively tests freeze point of conventional coolants
- > Accurately tests SCA (nitrite) concentrations in conventional coolants



| Part# | Quantity Per Bottle | Quantity Per Case |
|-------|---------------------|-------------------|
| TS200 | 25 Strips/Bottle | 12 Bottles/Case |



- Top Pad: Percent Glycol
- Middle Pad: Nitrite ppm

2-Way Heavy Duty Test Strips TS100

- > For use in nitrated (fully formulated) conventional heavy duty coolants
- > Accurate results in 2 minutes
- > Determines freeze point and nitrite levels



| Part# | Quantity Per Bottle | Quantity Per Case |
|-------|---------------------|-------------------|
| TS100 | 50 Strips/Bottle | 12 Bottles/Case |

Not Sure What To Do?

Scan code or visit <http://bit.ly/CoolantGuide>
Let our online coolant service guide direct you.



Liquid Supplemental Coolant Additive (SCA) Treatments

Pencool® 2000 - Cooling System Treatment 2000's

- > Reduces corrosion, cavitation erosion, and liner pitting
- > Lubricates water pump and other metal surfaces to reduce wear
- > Controls formation of harmful scale deposits



Designed For Marine And Water-Only Cooling System Applications

| Part# | Quantity | Net Contents | Container |
|--------|----------|--------------|-----------|
| 200016 | 12/Case | 16 fl. oz. | Bottle |
| 200064 | 6/Case | 1/2 Gallon | Jug |
| 200005 | 1 | 5 Gallons | Pail |
| 200055 | 1 | 55 Gallons | Drum |

Protects Metals In All Conventional Heavy Duty Cooling Systems

Pencool® 3000 With Stabil-Aid® - Cooling System Treatment 3000's

- > Stabil-Aid® prevents the formation of gel deposits that plug radiator passages, aftercoolers, and oil coolers
- > Maintains proper cooling system heat transfer characteristics resulting in longer engine life
- > Reduces corrosion, cavitation erosion, and liner pitting
- > Lubricates water pump and other metal surfaces to reduce wear
- > Controls formation of harmful scale deposits
- > Buffers pH to protect against acid caused by glycol degradation



| Part# | Quantity | Net Contents | Container |
|--------|----------|--------------|-----------|
| 300016 | 12/Case | 16 fl. oz. | Bottle |
| 300064 | 6/Case | 1/2 Gallon | Jug |
| 300005 | 1 | 5 Gallons | Pail |
| 300055 | 1 | 55 Gallons | Drum |

Cooling System Cleaners

2001 On-Line Cooling System Cleaner 2001's

- > Cleans diesel engine cooling systems while remaining in service
- > Add to cooling system every 20,000 miles before drain and fill
- > Can also be used as a 20-minute flush
- > Removes scale, corrosion, mineral and oxide deposits
- > Cost effective, time-saving alternative to off-line cleaning
- > Safe for seals and metals
- > Safe for use with all coolant formulations



| Part# | Quantity | Net Contents | Container |
|--------|----------|--------------|-----------|
| 200164 | 6/Case | 1/2 Gallon | Jug |
| 200105 | 1 | 5 Gallons | Pail |
| 200155 | 1 | 55 Gallons | Drum |

Oil Purge Cooling System Cleaner 200264

- > Specialized cleaner removes oil, hydraulic and transmission fluid from the cooling system
- > Removes dropout, silicate gel, scale buildup and other deposits
- > Low suds detergent flushes easily from system with 1-2 rinses
- > Safe for seals and metals
- > Safe for use with all coolant formulations



| Part# | Quantity | Net Contents | Container |
|--------|----------|--------------|-----------|
| 200264 | 6/Case | 1/2 Gallon | Jug |

Off-Line Cooling System Cleaner and Conditioner 201549

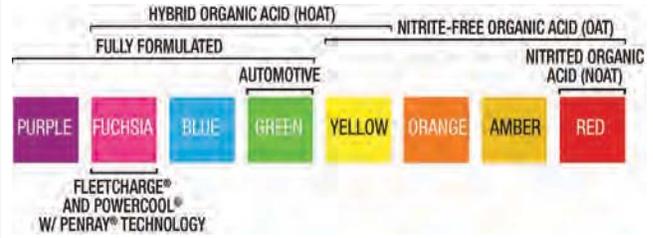


- > Twin Pac includes 2010 Cleaner and 2011 Conditioner
- > Provides deep cleaning for entire cooling system
- > Eliminates all deposits to restore cooling system to "like-new" condition
- > Removes dropout, oil, corrosion and harmful deposits such as hard water and heavy scale
- > Ideal for industrial applications such as mining and off-road construction equipment
- > Safe for use with all coolant formulations



| Part# | Quantity | Net Contents | Container |
|--------|----------------------|--|-----------|
| 201549 | 2 Twin Pacs/ Case | Each Twin Pac contains one 8 lb. bottle of 2010 and 2011 | Bottle |

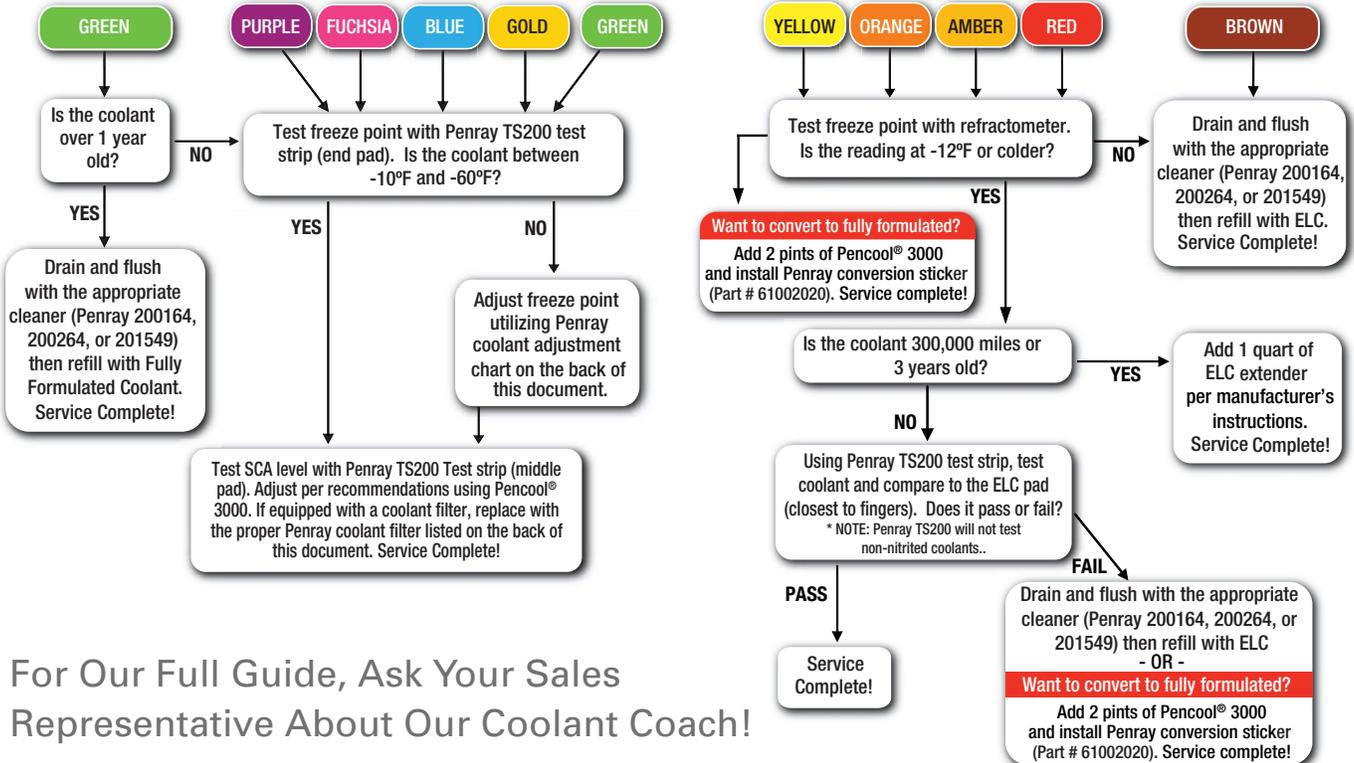
Coolant Colors



Color should not be used to determine the type of coolant. The colors to the right generally fall into the shown categories, but not always. Penray recommends the use of an antifreeze that meets TMC RP 329 or ASTM D-6210 specifications.

For a tested and proven cooling maintenance procedure, use Penray's FILL-FOR-LIFE® program. Utilize NEED-RELEASE® filters to protect your engine for 150,000 miles, or use PENCOOL® cooling system liquids and maintenance filters.

Coolant Coach



For Our Full Guide, Ask Your Sales Representative About Our Coolant Coach!



For 65 Years Penray Has Offered
A Full Line Of Chemical Products
To Meet Your Automotive,
Heavy Duty, Marine And Industrial Needs.





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