

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.

Automotive



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

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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Total Fuel System Cleaner 22161
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Power Steering System Maintenance

Power Steering Fluid System Flush 32104 Global Synthetic Power Steering Fluid 38324 Premium Power Steering Fluid 3912, 3932, 39644

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Transmission Maintenance 👩

Professional Automatic Transmission
Flush 65335
Transmission MVP 65385
Cool-Tec® 2 1112

Lubricants, Penetrants, And Coatings

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Specialty Products

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Tire Inflator 80859, 8086210

Brake System Maintenance 🙆

Super Heavy Duty Dot 3 Brake Fluid
6012, 6032, 6001, 6005, 605511

Synthetic Dot 4 Brake Fluid 6432, 640511

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Brake Cleaners

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Professional Service Kits

2-Step Fuel Injection and Induction Cleaning Kit 210213
3-Step Fuel Injection and Induction
Cleaning Kit 210313
3-Step Fuel Injection and Air Intake
Cleaning Kit 810114
3-Step Premium Fuel System
Cleaning Kit 250314
2-Step Engine Re-Charge Kit 750215
2-Step Power Steering Fluid
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Diesel Fuel Treatments and Cleaners

POW-R 365 [®] 20706421	I
Fuel Prep™ Biocide 100216, 10020121	
Fuel Doctor Program22)
Fuel Prep™	
100012, 100032, 100005, 10005523	5
Fuel Prep™ Concentrate 201201, 20120523	
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Total Diesel Fuel System Cleaner	
105032, 105005, 10505523	

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202012, 202032, 202055	24
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5032, 5005, 5055	27
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Universal 3-Way T	est Strips	5 TS200	29
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Liquid Supplemental Coolant Additive (SCA) 55 Treatments

Pencool [®] 2000 Cooling System Treatment	
200016, 200064, 200005, 2000055	0
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300016, 300064, 300005, 3000055	0

Cooling System Cleaners

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C Cetane Enhancer	
Winter Protection	
Cleaner	
WA Effect on Water	
Emergency Treatment	

💉 Fuel System Maintenance

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



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

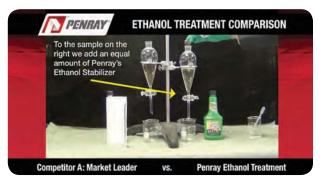


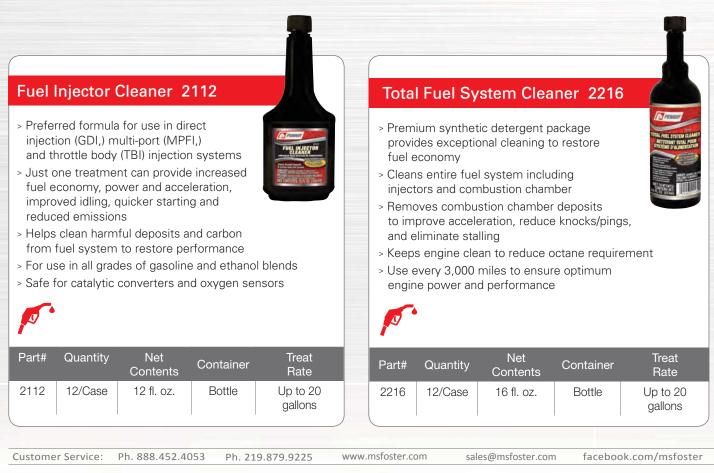


Ideal For Small Engine Storage!

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



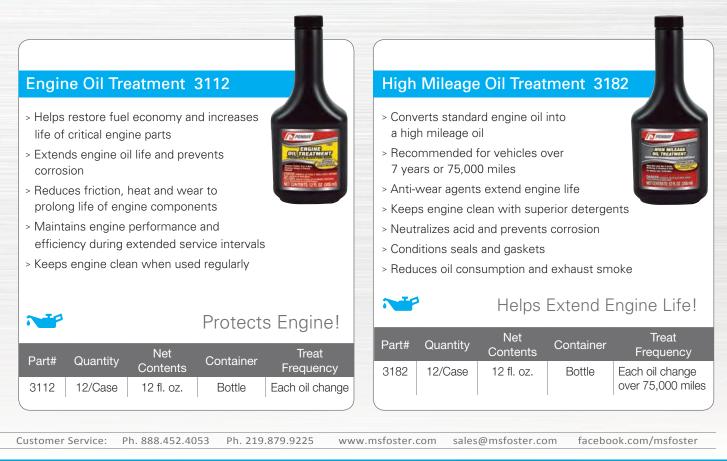




Fuel System Maintenance 📆



Oil System Maintenance 👡



2

System Maintenance

	r Pep 30					entrated 7501	l Motor	ľ	Concentrated Concentrated MOTOC FLAND
 > Use a efficie longer > Specia depos 	the engine fter oil chan ncy, reduce engine life al dual actio its and neur	ulated to clean e while driving age to help res e wear and ens n cleaner disso tralizes sludge valves and lifte	tore sure olves ers	Cleans While Driving!	depo interr > Use a befor > Frees engin	sits and sluc nal combusti after draining e re-filling s valves, lifte e oil to circu	g oil to flush ers and rings, a	allowing	neefit
Part#	Quantity	Net Contents	Container	Treat Frequency	Part#	Quantity	Net Contents	Container	Treat Frequency
3016	12/Case	12 fl. oz.	Bottle	Each oil change	7501	4/Case	1 Gallon	Jug	2-3 oil chang



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



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Power Steering System Maintenance



PENRAY

GLOBAL SYNTHETI OWER STEERING FL

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.

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

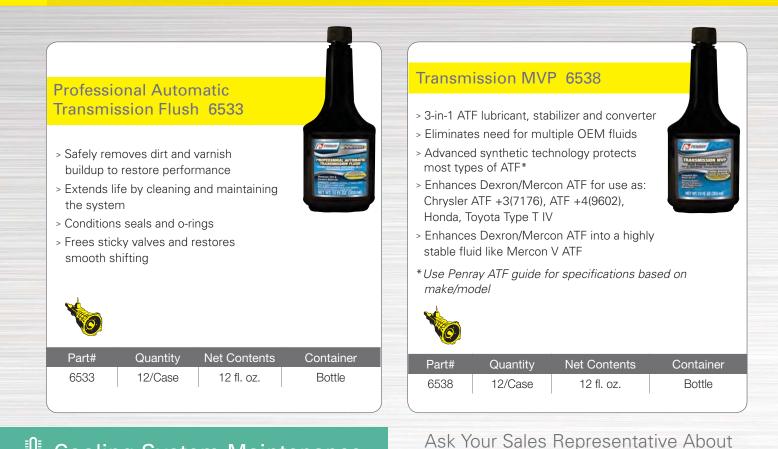


Part#	Quantity	Net Contents	Container
3912	12/Case	12 fl. oz.	Bottle
3932	12/Case	32 fl. oz.	Bottle
3964	6/Case	64 fl. oz.	Jug
)

Ask Your Sales Representative About Our Power Steering Application Guide!



Transmission Maintenance



🐰 Cooling System Maintenance

Our OEM ATF Enhancer Guide!

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!

COOL-TEC 2

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



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	INSTRUCTION Locate vehicle man	IS infacturer make, model and		1999999
		QUALITY. SERVIC		

PENRAY

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Lubricants, Penetrants, and Coatings

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 PEN PR-3 Wrench-Eze and Lubricant 4516 > Quick drying, black rubberized waterproof coating > Protects surfaces from rust and corrosion, > Penetrating lubricant frees rusted and extreme heat & cold, dust, fumes, and road salt difficult to remove parts > May be painted over with no bleed-through > Displaces water, lubricates and protects > For automotive applications: use on metal parts undercarriage, frame, and wheel wells to help > Reduces friction and helps silence squeaks reduce road noise > Silicone-free formula suitable for body > General use: minor roof repairs, gutters and shop use downspouts, foundations and driveway cracks, tree wounds Pleasant Vanilla Scent! Net Weight Part# Quantity Container Net Weight Part# Quantity Container 4424 12/Case 16 oz. Aerosol can 4516 12/Case 11 oz. Aerosol can 4455 1/Drum 55 Gallons Drum

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Lubricants, Penetrants, and Coatings

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



- > 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 Dre	ssing 4908	3	BELT DRESSING
and prem > Increases	s belts to preve ature failure s friction to elim g and slipping		APRESTO PARA BARDA The server The server Applied and the server Applied an
 For use v all types of 			
	premature wea	ır	
Part#	Quantity	Net Weight	Container
4908	12/Case	7 oz.	Aerosol Can



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Lubricants, Penetrants, and Coatings

Inner Slide Lu	be 7005	PENRAY	Chain L	ube 7006		
 Maximum Moly S lubrication Protects against response of the second second	with stay-put formulation ulfide content for ultim ust and corrosion ve metal to metal cont s, fifth wheels, and all	ate	 > Durable li Moly Sulf > For use ir motorcyc > Drys afte > Quiets no 	fide and anti-we n: any chain driv eles, and motor r entering chair bise	use fortified with ear additive ven application,	ands Grea For A Chair
Part# Quar	tity Net Weight	Container	Part#	Quantity	Net Weight	Cont
7005 12/C	ase 10.5 oz.	Aerosol Can	7006	12/Case	10 oz.	Aeroso

Dry Gra	phite Lube	7009				
heat up t	to 700°F	sms and extrem	PHY GRAPHITE LUBE INDUSTE OF CALIFORNE INDUSTE INTERNATION			
 > Dries in minutes to a non-stick finish > Reduces friction, heat and surface wear 						
	against rust and metal, plastics,	l corrosion rubber and othe	r surfaces			
	irt and lubricate					
	furnace and ov	, tracks and slide en door hinges	·S,			
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

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Electrical System Maintenance

attery Protector 7 and starting and battery in aused by corrosion! Prolongs battery life by pro- of corrosive materials on b Seals out moisture and pro- Color tinted to indicate are For use in: auto, marine, a heavy duty, off-road and in To remove buildup use 70	failure can be eventing buildu pattery terminal events oxidation ea treated griculture, moto ndustrial applica	an Example prcycle, tions	 Neutraliz maximur Helps pr Can be u cables, t to acid c Spray or After cle 7011 to p 	m current flow oduce positive ised on all type: erminals, and a orrosion i, wipe off aning use Penra orevent future k	noves corrosion for electrical contact s of batteries, nything subject ay Battery Protecto puild-up and corrosi	er on
Part# (Juantity)	Net weight	Container	Part#	Quantity	Net Weight	Container

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

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er.com facebook.com/msfoster

Specialty Cleaners 🚈



Specialty Products 🚯 🖄

Glass Cleaner 84150	80859 Features Convenient Push-On Cone Tip!
Professional grade formula designed for vehicle glass cleaning	Tire Fix Plus [®] - Non-Flammable Tire Inflator 808's
Especially effective in removing sap, tar, bugs, road film/dirt, cheater wax and plasticizer haze	 > Seals punctures while inflating tire > Contains Leak Detective™ so puncture can be found and repaired quickly
Fine mist spray pattern for even application	 Prevents corrosion; safe for all wheel types
100% evaporating formula eliminates streaks,	and tire pressure monitor systems (TPMS)
film, and light-distorting residues	> Water-based formula for easy cleanup
Ammonia free, safe for tinted windows	 Safe and easy way to temporarily repair a flat tire with no tools required Interpretation Interpretatio
n ō	
	Part# Quantity Net Weight Container Type
Part# Quantity Net Weight Container	80859 6/Case 12 oz. Aerosol Can Cone
8415012/Case18 oz.Aerosol Can	80862 6/Case 22 oz. Aerosol Can Delux Hose

9225

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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
<)

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

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



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Brake System Maintenance



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.



Quantity	Net Weight	Container
12/Case	14 oz.	Aerosol Can
1/Pail	5 Gallons	Pail
1/Drum	55 Gallons	Drum
	12/Case 1/Pail	12/Case14 oz.1/Pail5 Gallons

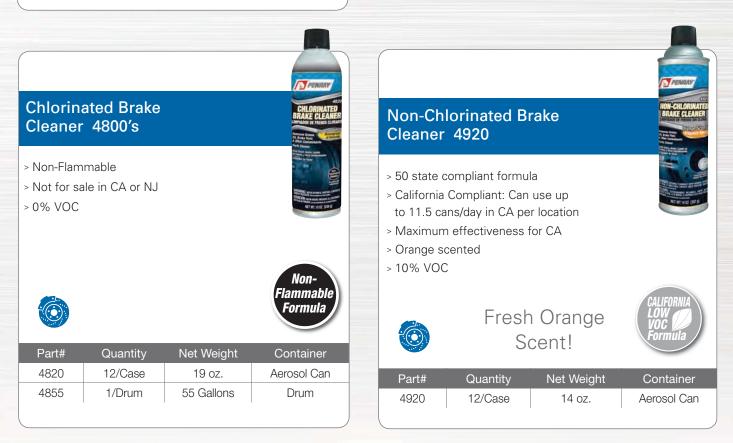
Non-Chlorinated Brake Cleaner 4700's

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



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X	ormu	la

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



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Professional Service Kits

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



PENRAY

Lifetime Preventive

Maintenance

Protection Plan

Fuel Injectors

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.





- > 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





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

Extend			
Vehicle	Part#	Quantity	Container
Life!	2103	8/Case	Carton

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Professional Service Kits 😤

3-Step Fuel Injection and Air Intake Cleaning Kit 8101

Lifetime Preventive Maintenance Protection Plan

- > 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



- > 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.

Most Comprehensive Fuel System Cleaning!

3-Step Premium Fuel System Cleaning Kit 2503

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
È	2503	6/Case	Carton

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🖶 Professional Service Kits

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.



PENRAY

Lifetime

Preventive Maintenance

Protection Plan 2 Step k



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.





- > 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.



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.



Professional Service Kits 😤

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.



PENRAY

Lifetime Preventive Maintenance Protection TUNE-UP KIT

2 Step Kit

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.



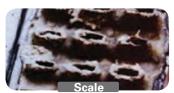


- > Safely cleans the entire cooling system
- > Designed for automotive coolants
- > Eliminates overheating and scale build-up
- > Inhibits rust and scale formation
- > Use with VACFILL3 or CVAC3 fluid exchange machine
- > For Professional Use Only

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.



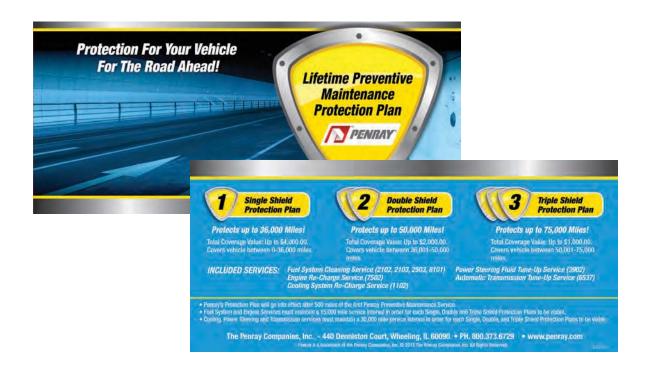


Coolant is very important, it prevents the #1 cause of breakdowns - cooling system failures. A clean and stable cooling system will prevent overheating and prolong the life of all cooling system components.

⊜	Part#	Quantity	Container
Ē	1102	10/Case	Carton

Customer Service: Ph. 888.452.4053 Ph. 219.879.9225 www.msfoster.com sales@msfoster.com

Preventive Maintenance Protection Plan



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

Professional Tools



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 SP	301BC	5
Easily conver	ts any aerosol into a li	quid.	D
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





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-therail cleaning.

Part#	Quantity
SP304TRA	1/Case

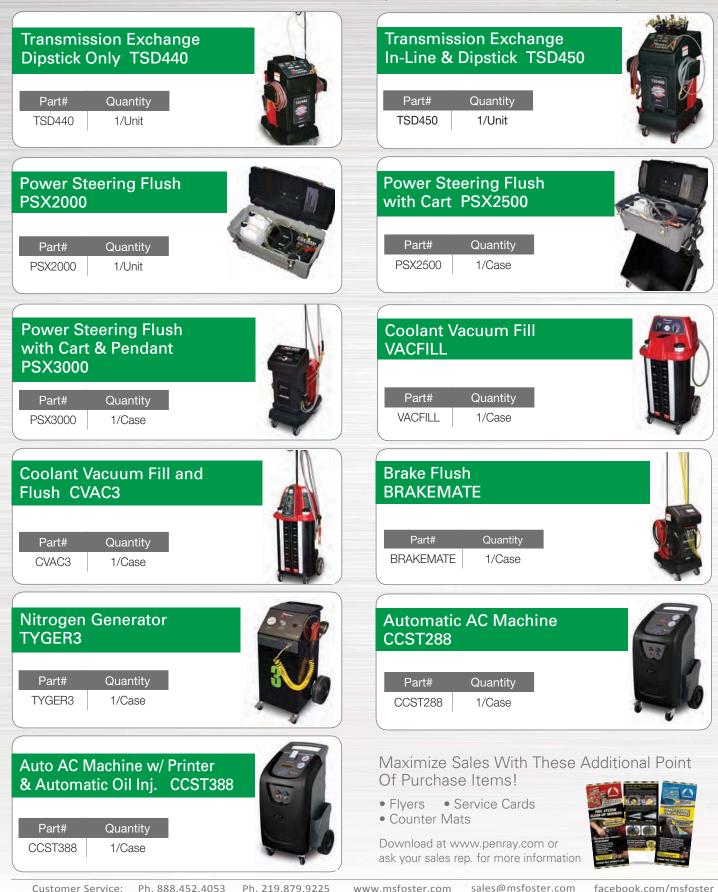


1/Case



😤 Fluid Exchange Equipment

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



www.msfoster.com sales@msfoster.com

Light Duty Diesel Treatments and Cleaners 🔬

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

BioReady™

- > 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

	licady			C C W
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.

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

See Page 26 For Diesel Fuel **Additive Benefit Chart**

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.

COMC



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.

Cetane Enhancer \mathbf{G}

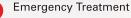
Winter Protection

 \mathbf{C}

Cleaner

Effect on Water

(WA)



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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

Bio Ready [™]				CWC
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 Fuel Prep[™] Biocide 1002's Rag Layer > Fast acting single dose biocide > Stops 90% of microbial activity in as little as 6 hours Water > Protects the entire fuel system from corrosion caused by microbial growth > Helps prevent fuel filter plugging to reduce maintenance costs and prevent downtime Sediment > Stops microbial activity in the storage tank before the fuel works its way into a vehicle How do bugs grow? Fuel storage tanks are a perfect > Effective in all diesel fuels, including ULSD and Biodiesel breeding ground for microorganisms (bugs). The bugs have **Bio**Ready[™] an abundant food supply of hydrocarbons in the fuel. The * Follow with Fuel Prep[™] Diesel Fuel "rag layer" indicated above is an emulsion of water and fuel Conditioner to maintain a clean and supporting growth of bugs. Once the bugs begin to grow healthy fuel system they double in population every 20 minutes. As the bugs multiply they produce waste products. The waste products Net Contents Part# Treat Rate Quantity Container produce sludge, acids and other harmful by-products impacting the fuel and the storage tank. Eventually a black, 12/Case 1 Pint treats 1,250 Gallons 100216 1 Pint Bottle brown or green slime will form clogging filters, corroding 100201 4/Case 1 Gallon treats 10,000 Gallons 1 Gallon Jug metal and causing hoses to swell and blister. **Emergency Treatment Cetane Enhancer** See Page 26 For Diesel Fuel Cleaner F

Additive Benefit Chart

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Ph. 219.879.9225 www.



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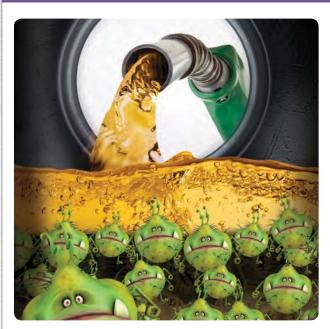
Effect on Water

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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
- See Page 25 For Fuel Test Kits







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

BioReady[™]

- > Helps eliminate conditions conducive to bacterial and fungal growth
- > Separates water from fuel for easy collection
- > ULSD compliant & Biodiesel compatible

(MA)

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

FUEL PREP

- > Separates water from fuel for easy collection
- > ULSD compliant & Biodiesel compatible

	BioRead	У [™]		
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® -**Total Diesel Fuel System Diesel Fuel Enhancer 208005** Cleaner 1050's 013 > Anti-oxidant technology > Extremely powerful fuel system cleaner stabilizes fuel TOTAL DIESEL > Cleans and helps prevent fuel filter > Cleans injectors to improve fuel economy and injector plugging ALE LIQUIDE, K.O.S. (KEROSEINE) > Enhances Lubricity to prevent excessive > Formulated to dissolve and disperse wear "Asphaltenes" (black fuel) > Prevents corrosion to protect engine > Helps improve lubricity and prevent corrosion components > Attacks extreme cases of dirt, grime and sludge > Lifts Cetane 1 number increasing fuel quality, > ULSD Compliant & Biodiesel compatible power, and cold weather starting Premium Cleaner Helps **Bio**Ready[™] > ULSD compliant & Biodiesel compatible Restore Fuel Economy! **Bio**Ready[™] Net Part# Quantity Container **Treat Rate** Contents. Net Treat Rate Part# Quantity Container 105032 12/Case 32 fl. oz. Bottle 32 oz. treats 250 Gallons Contents 105005 1 5 Gallons Pail 5 Gallons treats 7,500 Gallons 5 Gallons treats 208005 1 5 Gallons Pail 7.500 Gals. 105055 1 55 Gallons Drum 55 Gallons treats 82,500 Gals. See Page 26 For Diesel Fuel Cetane Enhancer Cleaner **Emergency Treatment** Additive Benefit Chart Winter Protection MA. Effect on Water Ph. 888.452.4053 Ph. 219.879.9225 Customer Service: www.msfoster.com sales@msfoster.com facebook.com/msfoster

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Cold Weather Diesel Treatments

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.

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!

See Page 26 For Diesel Fuel Additive Benefit Chart

CWC

Cetane E

Winter P

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

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

	Bio Read	Y™		
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.
				·

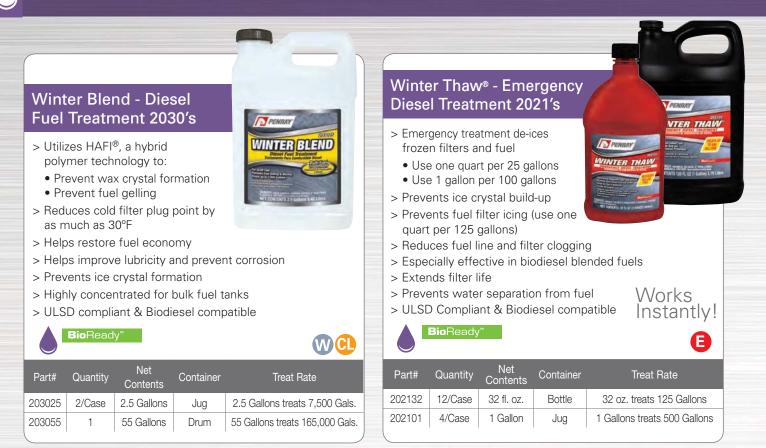
	Pour Point	CFFP			
Untreated Diesel Fuel	-15°F	-4°F			
Penray 202032	-50°F	-24°F			
Untreated Biodiesel	-5°F	-2°F			
Penray 202632	-35°F	-6°F			
nhancer Cleaner Emergency Treatment					
rotection 🙀 Effe	ct on Water				



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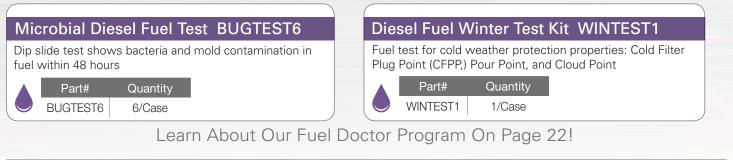
Winterizing Your Diesel Engine?

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

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Diesel Fuel Test Kits



www.msfoster.com

	Penray Diesel Fuel Additives										
Bes	t For:		А	ll Season			Winter Light D			Duty	
Produc	ct 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 N	umbers:	207064	208005	1000XX 2012XX	1002XX	1050XX	2020XX 2026XX	2030XX	2021XX	82012	81012
Feat	tures:										
	3-8 numbers per bottle									x	x
Cetane Enhancer:	One number per bottle	x	х								
C	Contains Cetane Enhancer					х	x				
	Up to 30° CFPP reduction						x	х		х	
Winter Protection:	Up to 20° CFPP reduction	x									
W	Emergency Treatment								Х		
	Disperses Wax	x					x	×		х	
Cleaner:	Cleans Up	х	х	х		х				х	x
CL	Helps Keep Clean						x	х			
Effect on	Water Neutral	х			х		x	х		х	
Water:	Disperses Water								х		
	Displaces Water		х	х		Х					х
	Enhances Lubricity	x	Х			х	x	х			х
	Corrosion Control	х	х	х	х	х					x
Additional Benefits:	Helps Control Microbes*		х	х							
	Eliminates Microbes				х						
	Stabilizer / Anti- Oxidant conditions cond		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

₩			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 PEN > 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 券 Part# Quantity Net Weight Container 5216 12/Case 12.3 oz. Aerosol Can

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Protects

Cooling System Filters

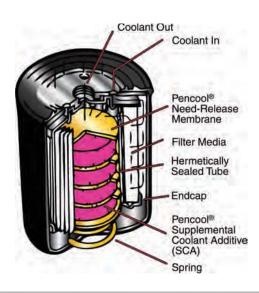
Need Release[®] - Extended Service Cooling System Filters & Element

- > 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

	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 ¾ 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



Tri-Lingual For Sale In USA & Canada!



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

70

Same Great Pencool® Product In A Filter!

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

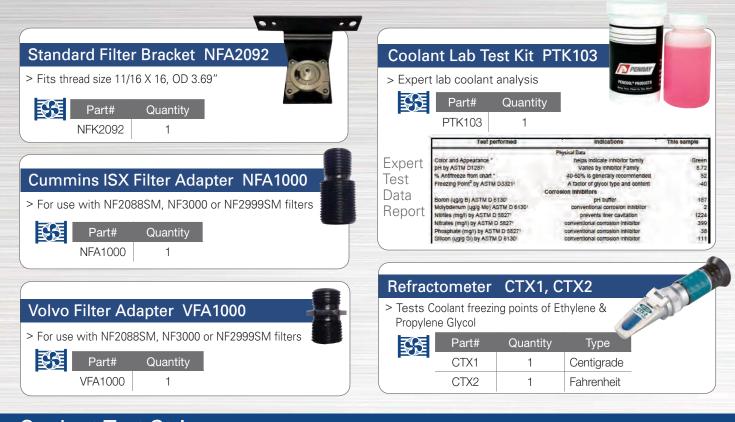
Synthetic Media Blank Coolant Filter NF2999SM & Element NF3999SM



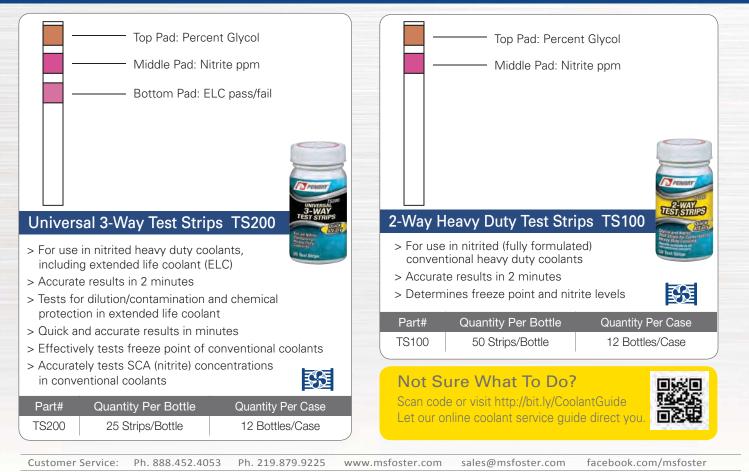
- > Long life filter lasts 150K miles, 15 months, or 3K hours
- > For use with ELC (Extended Life Coolants) and conventional coolants
- > Features inner shell with durable epoxy coating to prevent internal filter corrosion



	-		
Part#	Quantity	Treats	Specifications
NF2999SM	12/ Case	8-20 Gals.	Standard filter bracket- Detroit Diesel, Cater- pillar, 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.



Coolant Test Strips



Liquid Supplemental Coolant Additive (SCA) Treatments



	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

PENDAY

OIL PURGE

Container

Jug

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

Quantity

6/Case

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



Container

Bottle

Jug

Pail

Drum

2001 On-Line Cooling System Cleaner 2001's

Quantity

12/Case

6/Case

1

1

- > 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

S

Part#

200016

200064

200005

200055

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

Net

Contents

16 fl. oz.

1/2 Gallon

5 Gallons

55 Gallons

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C

Part#

200264

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Net

Contents

1/2 Gallon

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



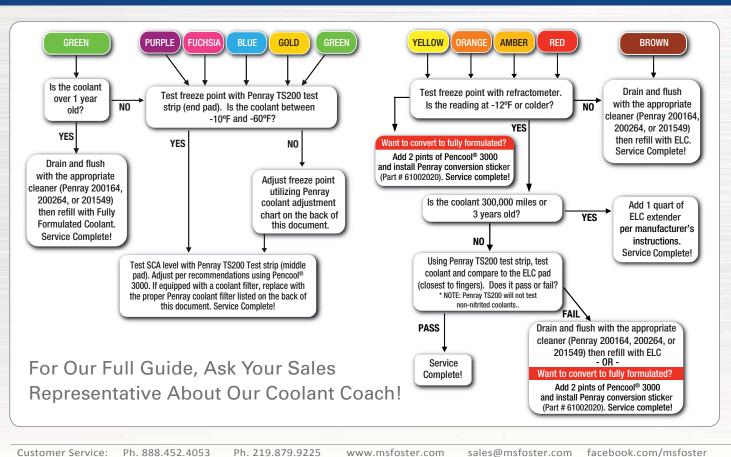
Part#	Quantity	Net Contents	Container
201549	2 Twin Pacs/ Case	Each Twin Pac contains one 8 lb. bottle of 2010 and 2011	Bottle

Coolant Colors HYBRID ORGANIC ACID (HOAT) NITRITE-FREE ORGANIC ACID (OAT) FULLY FORMULATED NITRITE-FREE ORGANIC ACID (OAT) NITRITE ORGANIC ACID (NOAT) NITRITE ORGANIC ACID (NOAT) NITRITE ORGANIC ACID (NOAT) PURPLE FUCHSIA BLUE GREEN YELLOW ORANGE AMBER RED FLEETCHARGE® AND POWERCOOL® W/ PENRAY® TECHNOLOGY

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 65 Years Penray Has Offered A Full Line Of Chemical Products To Meet Your Automotive,

Heavy Duty, Marine And Industrial Needs.







1-888-452-4053

SALES@MSFOSTER.COM WWW.MSFOSTER.COM

CONTACT US

1040 HIGHWAY 212 MICHIGAN CITY, IN 46360

