



Chemicals

Engine Oil Treatments

RALLYE Super Oil Treatment

RALLYE Super Oil Treatment is specially formulated to help maintain viscosity of motor oil at high temperatures, helping to reduce oil burning and tailpipe smoke. Add RALLYE Super Oil Treatment at regularly scheduled oil changes.

RALLYE Smoke Out Oil Treatment

RALLYE Smoke Out Oil Treatment provides a thick oil cushion to help fill gaps between the cylinder walls, piston rings and valve guide seals where friction and metal-to-metal contact have worn these parts. Smoke Out Oil Treatment cushions noisy valves and lifters. It also helps reduce oil consumption, smoking, and engine wear.

<u>TYPICAL PROPERTY</u>	<u>TEST METHOD</u>	<u>Super Oil Treatment</u>	<u>Smoke Out Oil Treatment</u>
Gravity, API	ASTM D 287	30.3	29.0
Specific Gravity (gms/cc)	ASTM D 287	0.87439	0.88127
lbs/gallon	ASTM D 287	7.28	7.339
Viscosity (cSt), @100C. (SUS), @ 210F.	ASTM D 445	400 1927	600 2901
Viscosity (cSt), @40C. (SUS), @100F.	ASTM D 445	3800 19600	7500 40.000
Pour Point, C.	ASTM D 97	-9	-9
Flash Point, C.	ASTM D 92	215 C	220 C



Engine Cleaning Additives

RALLYE Engine Flush

RALLYE Engine Flush circulates through the entire oil system and removes power-robbing deposits. RALLYE Engine Flush helps dissolve sludge, gum and varnish from engine and oil pan. Also helps sticky valves and rings. Use RALLYE Engine Flush at every oil change to keep your engine clean and running at peak performance.

<u>TYPICAL PROPERTY</u>	<u>TEST METHOD</u>	<u>Engine Flush</u>
Gravity, API	ASTM D 287	31.2
Specific Gravity (gms/cc)	ASTM D 287	0.86972
lbs/gallon	ASTM D 287	7.243
Viscosity (kin), cSt. @40C.	ASTM D 445	4.6
Viscosity (sus), @100F.	ASTM D 445	41.31
Flash Point, C.	ASTM D 92	124

Stop Leak Additives for Lubricants

RALLYE Engine Oil Stop Leak

RALLYE Engine Oil Stop Leak helps to recondition old dry rubber crankcase seals and gaskets. It also helps stop and prevent engine seal leaks without harming internal engine parts. RALLYE Engine Oil Stop Leak does not clog oil passages and blends with all motor oils.

RALLYE Auto Transmission Stop Leak

RALLYE Auto Transmission Stop Leak helps to stop and prevent transmission seal leaks. Helps to reduce friction and wear in the transmission, cleans and helps prevent harmful formation of sludge and varnish. It can recondition old dry transmission seals, help smooth a rough shifting transmission, and help the transmission run cooler and last longer. RALLYE Auto Transmission Stop Leak mixes with all factory approved transmission fluids.

RALLYE Power Steering Stop Leak

RALLYE Power Steering Stop Leak is a specially formulated lubricant to help prevent leakage and eliminate squealing under severe conditions. RALLYE Power Steering Stop Leak is recommended for year-round use in all domestic and most foreign cars.

<u>TYPICAL PROPERTY</u>	<u>Power steering Stop Leak</u>	<u>Engine Oil Stop Leak</u>	<u>Transmission Stop Leak</u>
Gravity, API	30.5	28.2	30.8
lbs/gallon	7.27	7.38	7.26
Color	1.5	3.0	Red
Viscosity (kin), cSt. @100C.	5.13	10.50	5.0
Viscosity (sus), @210F.	153.7	62.0	43.25
Flash Point, C.	210	220	190



Fuel System Protection Additives

RALLYE Diesel Fuel Anti-Gel & Conditioner

RALLYE Diesel Fuel Anti-Gel & Conditioner helps prevent fuel from gelling in cold weather allowing it to flow freely. Helps clean injectors and disperses water. Helps maintain cetane rating for quicker starting. Also contains conditioners to clean filters and fuel lines year round.

RALLYE Gas Line Antifreeze

RALLYE Gas Line Antifreeze should be used year round to de-water the fuel system. RALLYE Gas Line Antifreeze can absorb moisture for smoother engine performance and helps prevent frozen gas lines and carburetor icing. It can also help unclog fuel injectors, clean carburetors and may reduce intake valve deposits.

<u>TYPICAL PROPERTY</u>	<u>Diesel fuel Anti-Gel & Conditioner</u>	<u>Gas Line Antifreeze</u>
Gravity, API	30.8	47.85
Specific Gravity (gms/cc)	7.26	0.78896
lbs/gallon	3.0	6.570
Viscosity (kin), cSt. @40C.	4.6	
Viscosity (sus), @100F.	42.1	48.20
Flash Point, C.	120	30

Fuel System Performance Additives

RALLYE Super Concentrated Fuel Injector Cleaner

RALLYE Super Concentrated Fuel Injector Cleaner is a high strength, concentrated cleaner that can help quickly remove power robbing deposits. If used regularly, RALLYE Fuel Injector Cleaner will help improve performance, fuel economy and reduce emissions. Also helps eliminate tough starts, rough idling and increase power and acceleration. It also cleans the entire fuel delivery system.

RALLYE Fuel Injector & Carburetor Cleaner

RALLYE Fuel Injector & Carburetor Cleaner, if used on a regular basis, will help keep injectors, intake valves, fuel system, port and PCV system clean. RALLYE Fuel Injector & Carburetor Cleaner can reduce exhaust emissions, which improves gas mileage, power and performance. It also helps eliminate hesitation, rough idling, engine knock and ping. Safe for all types of gasoline including oxygenated and gasohol. Safe for catalytic converters and oxygen sensors.

RALLYE Lead Lead Substitute

RALLYE Lead Substitute is formulated to replace lead protection. It helps prevent power loss by protecting against valve seat wear in gasoline engines designed for leaded fuel or that are operating on low-lead or no lead gasoline. If used regularly, RALLYE Lead Substitute can help clean fuel intake system, boost octane, restore lost horse-power and reduce hesitation.

<u>TYPICAL PROPERTY</u>	<u>TEST METHOD</u>	<u>Super Concentrated Fuel Injector Cleaner</u>	<u>Fuel Injector and Carburetor Cleaner</u>	<u>Lead Substitute</u>
Gravity, API	ASTM D 287	31.24	31.24	31.24
Specific Gravity (gms/cc)	ASTM D 287	0.86948	0.86948	0.86948
lbs/gallon	ASTM D 287	7.241	7.241	7.241
Viscosity (kin), cSt. @40C.	ASTM D 445	4.56	4.52	4.50
Viscosity (sus), @100F.	ASTM D 445	41.8	42.3	42.0
Pour Point, C.	ASTM D 97	-21	-21	-21
Flash Point, C.	ASTM D 92	121	121	121
FTIR	PPLM-FTIR	match std	match std	match std

Fuel System Treatment Additives

RALLYE Super Gas Treatment & Fuel System Dryer

RALLYE Super Gas Treatment & Fuel System Dryer is a dual action formula. It removes water from the fuel system to fight gas line freeze, rust, hesitation and rough idling. It also helps clean the fuel system to remove condensation, unclog fuel injectors, clean carburetors and reduce intake valve deposits. RALLYE Super Gas Treatment & Fuel System Dryer should be used year round.

RALLYE Super Octane Treatment

RALLYE Super Octane Treatment helps to increase octane, eliminate engine knock and ping and improve fuel combustion. RALLYE Super Octane Treatment will also help prevent fuel system from freezing. Will not harm catalytic converters.



<u>TYPICAL PROPERTY</u>	<u>TEST METHOD</u>	<u>Fuel System Dryer</u>	<u>Super Octane Treatment</u>
Gravity, API	ASTM D 287	46.75	31.24
Specific Gravity (gms/cc)	ASTM D 287	0.77385	0.86948
lbs/gallon	ASTM D 287	6.611	7.241
Viscosity (kin), cSt. @40C.	ASTM D 445		4.46
Viscosity (sus), @100F.	ASTM D 445	52.50	42.0
Pour Point, C.	ASTM D 97		-21
Flash Point, C.	ASTM D 92	30	121
FTIR	PPLM-FTIR	match std	match std



Radiator Treatment Additives

RALLYE Radiator Fast Flush

RALLYE Radiator Fast Flush helps restore cooling system efficiency by helping to remove rust, scale, grease and sludge. Helps prevent overheating. Safe for aluminum blocks. Will not harm metal parts or cooling systems. Not harmful to hoses or gaskets.

RALLYE Radiator Anti-Rust and Water Pump Lube

RALLYE Radiator Anti-Rust and Water Pump Lube works as you drive. Helps prevent rust and corrosion in automotive cooling systems. Protects copper, brass, iron, aluminum and other metal parts found in older and modern systems. Provides lubrication to water pump seals. Not harmful to rubber. Do not use in a dirty radiator.

RALLYE Radiator Stop Leak

RALLYE Radiator Stop Leak can help stop leaks quickly in radiator and entire cooling system. It also helps prevent antifreeze loss and seal against seepage. RALLYE Radiator Stop Leak is for use in all cooling systems, including aluminum. It will not harm hoses or gaskets. No clogging. Compatible with any standard anti-freeze

<u>TYPICAL PROPERTY</u>	<u>TEST METHOD</u>	<u>Radiator Fast Flush</u>	<u>Radiator Anti-Rust</u>	<u>Radiator Stop Leak</u>
Density, Specific @60/60F	ASTM D 287	1.001	1.020	1.00500
lbs/gallon	ASTM D 287	8.344	8.50	8.379
pH	ASTM D 1287	10.2	10.2	11.5
Reserve Alkalinity	ASTM D 1121	-	2	-
Water, % by wt.	ASTM D 1123	85%	98%	-
Color	PPLM	Haze/transpar ent	Fluorescent Yellow	dark green
Boiling Point	ASTM D 1120	110 C.	110 C.	-
Leak Test	BMC	-	-	pass <8 sec