

PTC1180B

12/2010

PRIMAA**TECH**TM
= *PREMIER HIGHWAY PRODUCTS* =

COOLANT/ANTIFREEZE

**ADVANCED COOLANTS/ANTIFREEZE FOR ALL
HEAVY DUTY ON AND OFF-ROAD APPLICATIONS**



**GUARANTEED TO MEET OR EXCEED COMMERCIAL
ENGINE MANUFACTURER'S INDUSTRY STANDARDS**

www.PrimaBrands.com

EXTENDED LIFE CONCENTRATE (Red)



GALLON
P/N: PTAF-2301F

DRUM
P/N: PTAF-2355F

■ **Recommended Applications:**
For Trucks And All Diesel Engines,
On And Off Road.

■ **New Anti-Corrosion Formula:**
Nitrited Organic Acid Technology
Has Potential of 5 year,
600,000 Mile Life.

■ **Formulated To Satisfy Truck
OEM Specifications:**
Mack - Volvo - Navistar
Cummins 90T8-4 - Caterpillar EC-1
Detroit Diesel 7SE 298.

■ **Formulated To Exceed
Industry Standards:**
ASTM D3306 & D6210
SAE J1941 & J1034 - TMC RP-329.

READY-TO-USE (Red)



GALLON
P/N: PTAF-2301R

DRUM
P/N: PTAF-2355R

PRODUCT SPECIFICATIONS

This product is formulated with the latest organic acid technology and is "pre-charged" creating a high quality extended life ethylene glycol anti-freeze/coolant for diesel engine use. Its special blend of long-lasting inhibitors is designed to protect all engine components, including aluminum, for a minimum of 5 years, or 600,000 miles, when an extender is used.

TYPICAL COMPOSITION

Ethylene Glycol - Antifreeze Grade
Corrosion Inhibitors - Some Hydrated
Total Water - ASTM D1123
Anti-Foam And Dye

PERCENT BY WEIGHT

95.0%
4.0 Maximum
4.0 Maximum
Included

TYPICAL PROPERTIES

Color
Clarity
Specific Gravity - 60/60° C - ASTM DD1122
PH 50% By Volume - ASTM 1287
Flash Point - Tag Open Cup - ASTM 1310
Ash - ASTM D1119
Foam Test - ASTM D1881
Foam Volume
Break Time
Boiling Point - ASTM D1120
100% By Volume
50% By Volume
Freezing Point - ASTM D1177 - 50% By Volume
Reserve Alkalinity - ASTM D1121

RED

Clear - Single Phase
1.12 - 1.14
8.0 Min.
250° F
0.35% by Weight Maximum

50 Milligrams Maximum
2 Seconds

328° F Minimum
226° F Minimum
-34° Maximum
4 Minimum

GENERAL INFORMATION

Use Recommendation – For long life and best corrosion protections, the coolant mix should be 50° PRIMATECH Extended Life combined with pure, clean water. Note: If water condition is questionable, we recommend distilled water. This provides freezing protection to -34° F, and boil-over protection to +265° F, using a 15 pound pressure radiator cap. For extreme conditions, PRIMATECH Extended Life can be used to a maximum of 70%, providing freezing protection to -84° F and boil-over protection to +276° F. Note: Do not use more than 70% concentration of anti-freeze. Using poor quality water, or combining with conventional anti-freeze, reduces the effective life of the coolant to 24,000 miles, or two year, whichever comes first. For HVAC systems, recreational vehicles, and protection of other hydronic systems, please consult us for appropriate product recommendations.

Applicable Specification – Exceeds the requirements of ASTM D3306, ASTM D6210, TMC RP329, SAE J1034, and SAE J1941: satisfies both hot surface aluminum protection requirements of ASTM D4340 and Cummins heavy duty low silicate requirements, and is compatible with current heavy duty extended life products of other major producers.

Hoses And Gaskets – No adverse effect on gaskets, hoses, or automotive finishes.

Cautionary Information – Ethylene Glycol, the major components in PRIMATECH Extended Life, is poisonous to humans and animals when ingested. Store only in closed containers with complete cautionary warning information thereon, in a cool, secure place, out of the reach of children. Do not use in any system connected with potable water. Ask us about other products specifically designed for this purpose.

	ASTM D1384		ASTM D2570	
	Max. Loss Allowed	PrimaTech Ext. Life	Max. Loss Allowed	PrimaTech Ext. Life
COPPER	10	0	20	1
SOLDER	30	2	60	2
BRASS	10	0	20	1
STEEL	10	0	20	1
CAST IRON	10	0	20	1
ALUMINUM	30	0	60	10

PRE-CHARGED w/SCA CONCENTRATE (Fuchsia)



GALLON
P/N: PTAF-2201F

DRUM
P/N: PTAF-2255F

- **Recommended Applications:**
For Diesel Engines, On And Off Road.
- **Advanced Formulation:**
Low Silicate Content With SCA Pre-Charged Fully Formulated
- **Year Round Protection:**
Full Strength Ethylene Glycol For Summer And Winter Protection
- **Formulated To Satisfy Truck OEM Specifications:**
Mack - Cummins - Kenworth
Peterbilt - Freightliner
Detroit Diesel & John Deere JDM.
- **Formulated To Exceed Industry Standards:**
ASTM D6210 & D4985
SAE J1941 & J1034 - TMC RP-329.

READY-TO-USE (Fuchsia)



GALLON
P/N: PTAF-2201R

DRUM
P/N: PTAF-2255R

PRODUCT SPECIFICATIONS

This product is a fully formulated heavy duty antifreeze/coolant requiring no additive (SCA) pre-charge. It provides corrosion protection for all diesel engines cooling systems and is compatible with pre-charged antifreeze/coolants of all major producers.

TYPICAL COMPOSITION

Ethylene Glycol - Antifreeze Grade
Corrosion Inhibitors - Some Hydrated
Total Water - ASTM D1123

PERCENT BY WEIGHT

95.0%
4% Maximum
3% Maximum

TYPICAL PROPERTIES

Color
Odor
Specific Gravity - 60/60° C - ASTM DD1122
PH 50/50 By Volume - ASTM 1287
Total Water - D1123
Total Glycols - E202
Flash Point COC - D92
Foam Test - ASTM D1881
Boiling Point - ASTM D1120
Freezing Point - ASTM D1177 - 50/50 Solution
Aluminum Corrosion Protection Pass

FUCHSIA

Mild
1.110 - 1.115
10.4
3% Maximum
97% Minimum
250° F Minimum
45 ml/2.7 Sec. Maximum
327° F (163° C)
-34° Maximum
ASTMD4340

GENERAL INFORMATION

Use Recommendation – This Ethylene Glycol based antifreeze/coolant should not be used in concentrated form in your vehicle. A 50% dilution is generally recommended for best balanced protection against corrosion and summer boiling. Do not dilute to less than 33 1/3%. Note: Maximum freeze protection is at 68% if required. Water quality is an important factor affecting the long-term corrosion protection of any antifreeze. Avoid use of contaminated or heavily chlorinated water. Use of additional cooling system additives is not needed and is specifically discouraged.

Applicable Specification – Exceeds the requirements of ASTM D4985, ASTM D6210, SAE J1941 and TMC RP329. Satisfies both hot surface aluminum protection requirements of ASTM test D4340 and Cummins heavy duty low silicate requirements.

Hoses And Gaskets – No adverse effect on gaskets, hoses, or automotive finishes.

Cautionary Information – Ethylene Glycol, the major component in PRIMATECH Extended Life, is poisonous to humans and animals when ingested. Store only in closed containers with complete cautionary warning information thereon, in a cool, secure place, out of the reach of children. Do not use in any system connected with potable water. Ask us about other products specifically designed for this purpose.

	ASTM D1384		ASTM D2570	
	Max. Loss Allowed	PrimaTech Ext. Life	Max. Loss Allowed	PrimaTech Ext. Life
COPPER	10	2	20	14
SOLDER	30	4	60	18
BRASS	10	2	20	14
STEEL	10	2	20	3
CAST IRON	10	2	20	2
ALUMINUM	30	5	60	10

UNIVERSAL GREEN CONCENTRATE (Green)



GALLON
P/N: PTAF-2101F

DRUM
P/N: PTAF-2155F

- **Recommended Applications:**
Automotive And Light Duty Trucks With Gasoline Engines. Can Be Used In Diesel Engines If SCA Is Added Separately, But HD Fuchsia Pre-Charged w/SCA Is Recommended.
- **Advanced Formulation:**
Unique Low Silicate Formula Protects All Cooling System Materials - Especially Aluminum - For Cars And Light Duty Trucks.
- **Meets Automotive And Light Duty Truck Specifications:**
Meets ASTM D-3306, D4340 - Critical Hot Surface Aluminum Tests - D4985 Trucks - SAE J1034 And J1941.
- **Maximum Protection:**
Premium Formulation For Both Winter And Summer Cooling System Protection.

READY-TO-USE (Green)



GALLON
P/N: PTAF-2101R

DRUM
P/N: PTAF-2155R

PRODUCT SPECIFICATIONS

This Universal product meets or exceeds performance requirements for both car and truck cooling systems, including those with aluminum heat-rejecting components such as aluminum cylinder heads, water pumps, and radiators. It provides corrosion protection for all cooling system metals and is compatible with antifreeze/coolants of all major manufacturers.

TYPICAL COMPOSITION

Ethylene Glycol - Antifreeze Grade
Soluble Corrosion Inhibitors
Total Water - ASTM D1123
Anti-Foam And Dye

PERCENT BY WEIGHT

95.0%
3.0 Maximum
3.2 Maximum
Trace

TYPICAL PROPERTIES

Color
Clarity
Specific Gravity - 60/60° C - ASTM D1122
Reserve Alkalinity - ASTM D1121
PH 50% By Volume - ASTM 1287
Flash Point - Tag Open Cup - ASTM 1310
Ash - ASTM D1119
Foam Test - ASTM D1881
Foam Volume
Break Time
Boiling Point - ASTM D1120
33.33% By Volume
50% By Volume
100% By Volume
Freezing Point - ASTM D1177
33.33% By Volume
50% By Volume
60% By Volume
100% By Volume

FLUORESCENT GREEN

Clear - Single Phase
1.110 - 1.145
6 - 7
7.5 - 11.0
250° F
1% by Weight Maximum

50 Milligrams Maximum
3.0 Seconds

220° F Minimum
226° F Minimum
325° F Minimum

0° F Maximum
-34° F Maximum
-62° F Maximum
-4° F Maximum

GENERAL INFORMATION

Use Recommendation – Do not use in concentrated form in your vehicle. A 50% dilution is generally recommended for best balanced protection against corrosion and summer boiling. Do not dilute to less than 33 1/3%. Note: Maximum freeze protection is at 68% if required. Water quality is an important factor affecting the long term corrosion protection of any anti-freeze. Avoid use of contaminated or heavily chlorinated water. Use of additional cooling system additives is not needed in automotive systems and is specifically discouraged. For HVAC systems, recreational vehicles, and protection of other hydronic systems, consult us for appropriate product recommendations.

Applicable Specification – Exceeds the requirements of ASTM D3306, ASTM D4985, SAE J1034, and SAE J1941, Federal Specification OA548D: satisfies both hot surface aluminum protection requirements of ASTM test D4340 and Cummins heavy duty low silicate requirements, and is designed to meet the requirements of GM1825M, GM1899M, Chrysler MS7170, and Ford ESEM97B44A.

Hoses And Gaskets – No adverse effect on gaskets, hoses, or automotive finishes.

Cautionary Information – Ethylene Glycol, the major component in PRIMATECH Universal Green, is poisonous to humans and animals when ingested. Store only in closed containers with complete cautionary warning information thereon, in a cool, secure place, out of the reach of children. Do not use in any system connected with potable water. Ask us about other products specifically designed for this purpose.

	ASTM D1384		ASTM D2570	
	Max. Loss Allowed	PrimaTech Ext. Life	Max. Loss Allowed	PrimaTech Ext. Life
COPPER	10	0	20	4
SOLDER	30	7	60	17
BRASS	10	0	20	3
STEEL	10	1	20	2
CAST IRON	10	1	20	2
ALUMINUM	30	0	60	3

PRIMATECH™

PREMIER HIGHWAY PRODUCTS

ADVANCED COOLANTS FOR ALL HEAVY DUTY ON AND OFF-ROAD HIGHWAY APPLICATIONS

CHEMICAL & APPLICATION REFERENCE CHART



COLOR	RED	RED	FUCHSIA	FUCHSIA	GREEN	GREEN
MIXTURE	Concentrate	Ready-to-Use 50/50	Concentrate	Ready-to-Use 50/50	Concentrate	Ready-to-Use 50/50
PRODUCT	Extended Life	Extended Life	Pre-Charged w/SCA	Pre-Charged w/SCA	*Universal Green	*Universal Green
GALLON P/N	PTAF-2301F	PTAF-2301R	PTAF-2201F	PTAF-2201R	PTAF-2101F	PTAF-2101R
DRUM P/N	PTAF-2355F	PTAF-2355R	PTAF-2255F	PTAF-2255R	PTAF-2155F	PTAF-2155R
RECOMMENDED APPLICATION	Diesel	Diesel	Diesel	Diesel	*Gasoline	*Gasoline
CHANGE INTERVAL	600,000 Miles w/Extender	600,000 Miles w/Extender	Life w/SCA's or Every 30,000	Life w/SCA's or Every 30,000	2 Years 30,000 Miles	2 Years 30,000 Miles
BASE	EG	EG	EG	EG	EG	EG
NITRITES	2400	1200	2800 ppm	1400 ppm	NO	NO
PHOSPHATES	None	None	None	None	2090 ppm	1045 ppm
SILICATES	None	None	< 250 ppm	< 125 ppm	< 250 ppm	< 125 ppm
PH LEVEL	8	8	10 - 11	10 - 11	8	8

*CAN BE USED IN DIESEL ENGINES - APPROPRIATE ADDITIVES ARE REQUIRED.

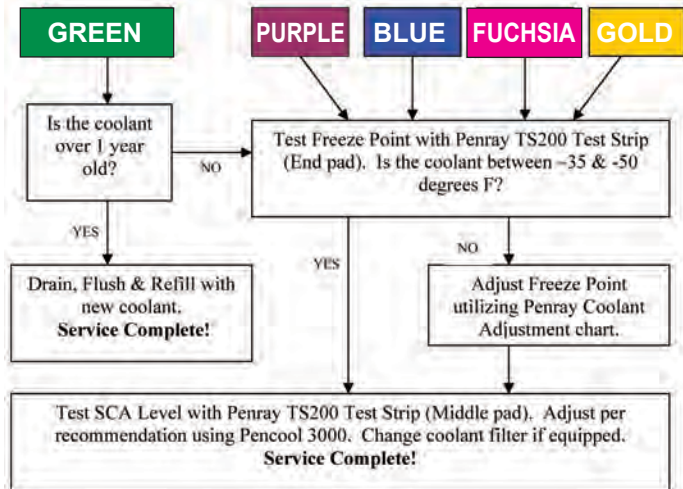
FOLLOW DIRECTIONS ON PRODUCT LABEL.

DON'T POLLUTE! Conserve resources. Dispose of container in proper collection manner.

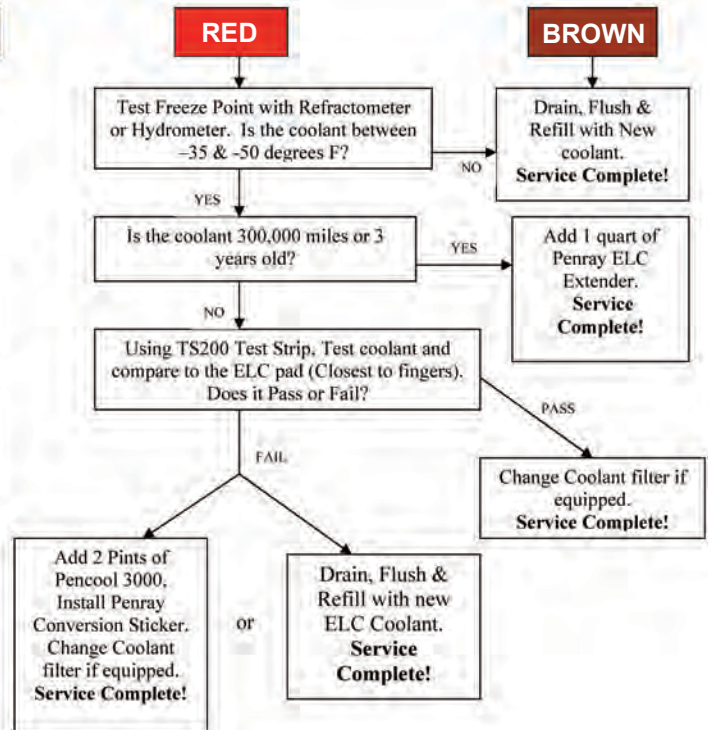
CAUTION: OVER EXPOSURE TO PRODUCT MAY CAUSE EYE, SKIN OR RESPIRATORY IRRITATION. KEEP AWAY FROM CHILDREN. **WARNING!** Avoid prolonged contact. Wash skin thoroughly with soap and water after use. Launder or discard soiled clothing. Empty container retains vapors and/or residue. Do not cut or weld on or near container or expose other sources of heat or ignition. Container may explode and cause injury or death.

COOLANT REFERENCE MAINTENANCE CHART

CONVENTIONAL FULLY FORMULATED COOLANTS



EXTENDED LIFE



ANTI-FREEZE MIXTURE REFERENCE CHART

COOLING SYSTEM CAPACITY	QUARTS OF ANTI-FREEZE REQUIRED FOR PROTECTION TO TEMPERATURES (°F) SHOWN BELOW										
	IN QUARTS	2	3	4	5	6	7	8	9	10	11
10	16°	4°	-12°	-34°	-62°						
11	18°	8°	-6°	-23°	-47°						
12	19°	10°	0°	-15°	-34°	-57°					
13	21°	13°	3°	-9°	-25°	-45°					
14	22°	15°	6°	-5°	-18°	-34°	-54°				
15	23°	16°	8°	0°	-12°	-26°	-43°	-62°			
16	23°	17°	10°	2°	-8°	-19°	-34°	-52°			
17	24°	18°	12°	5°	-4°	-14°	-27°	-42°	-58°		
18	24°	19°	14°	7°	-0°	-10°	-21°	-34°	-50°		
19	25°	20°	15°	9°	2°	-7°	-16°	-28°	-42°	-56°	
20	25°	21°	16°	10°	4°	-3°	-12°	-22°	-34°	-48°	
21		22°	17°	12°	6°	0°	-9°	-17°	-28°	-41°	
22		22°	18°	13°	8°	2°	-6°	-14°	-23°	-34°	
23		23°	19°	14°	9°	4°	-3°	-10°	-19°	-29°	
24		23°	19°	15°	10°	5°	0°	-8°	-15°	-24°	
25		24°	20°	16°	12°	7°	1°	-5°	-12°	-20°	

BOILING POINT OF 50% MIXTURE = 226°