



Nitrite Free Heavy Duty - Long Life Antifreeze/Coolant CONCENTRATE



Industry Standards

This extended-life antifreeze/coolant meets the following industry specifications:

- ASTM D3306
(automotive/light-duty)
- ASTM D4985
(heavy-duty diesel/low silicate)
- ASTM D6210
(fully formulated and precharged)
- TMC of ATA RP 329/330*

OEM Specifications

- GM 6277M
- Ford ESE M97B44-A
- Ford WSE M97B44-B
- Ford WSS M97B44-D
- Ford WSS-M97B54-A
- Ford WSS-M97B44-E1/E2
- Chrysler MS9769
- John Deere H-5, H-24, A-1 to C-1
- MTU MTL5048, MTL 5049
- Toyota
- Porsche TL-774D
- Mitsubishi
- Honda HES D2009-75
- Hyundai
- Mazda MEZ MW 121D
- Suzuki 0F02
- Isuzu
- VW TL774F (G12), light violet
- VW G12
- BMW
- Mercedes Blatt 325.0 & 325.2
- Audi
- Saab 6901 599
- Volvo 014 GS 17009
- Caterpillar EC-1
- Caterpillar ELC (with the addition of molybdate per specification)
- Cummins CES14603 (as found in service bulletin 3666132-02)
- Detroit Diesel 7SE298; DDC
- Powercool Plus and DDC
- Powercool Plus 6000
- Navistar CEMS B-44
- Navistar/International B-1,
- Type III (CEMS B-1), with the addition of molybdate per specification
- PACCAR: Kenworth, Peterbilt

Contact Information

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SUMMIT'S NITRITE / NITRATE FREE EXTENDED LIFE HEAVY DUTY ANTIFREEZE/COOLANT contains a proprietary poly-organic/multi-organic acid technology inhibitor system that does not contain any phosphate, silicate, borate, nitrate or nitrite. This product meets the performance requirements of ASTM D6210 without nitrite or nitrite/molybdate combination. It does not require a supplemental coolant additive (SCA) for heavy-duty fleet maintenance programs, but still provides wet sleeve cylinder liner cavitation protection due to its unique formulation.

A major advantage of this type of antifreeze is that it provides total cooling system protection for 600,000 on-road miles without the use of additive-containing coolant filters or supplemental coolant additives (SCA's). It is recommended that a sample of the coolant be inspected quarterly to detect any problems such as significant color change, pH change, phase separation, precipitation, cloudiness, or obvious contamination. This inspection should be in addition to the parameters that are normally checked in a routine or scheduled maintenance program.

The product's all-organic/poly-organic acid formulation has several other advantages. It is compatible with all types of coolant technologies including conventional inorganic acid salt formulations, straight organic acid (OAT) formulations, hybrid organic acid formulations (HOAT), nitrated HOAT formulations (NOAT) and other poly-organic acid formulations. Additionally, The antifreeze has a low reactivity which makes it less sensitive to contaminants such as motor oil, hard water compounds and other coolants. In fact, it can be mixed with other coolants over a wide range of concentrations without adverse effects on corrosion protection.

The product is suitable for passenger cars, vans, SUVs, light trucks, heavy-duty fleet vehicles and many off-road applications such as stationary engine cooling systems. It will provide superior corrosion protection for all cooling system metals, including aluminum, steel, cast iron, copper, brass and solder.

PHYSICAL PROPERTIES

Antifreeze Glycols	mass %	95.0
Water & Corrosion Inhibitors	mass %	5.0
Flash Point	°F	250°F
Weight per gallon at 60° F-16° C	lbs.	9.17-9.37
Silicates	mass %	Nil

% Antifreeze	Freezing Point		Boiling Point	
	°F	°C	°F	°C
40%	-9 max	-22 max	260 min	126 min
50%	-34 max	-36 max	266 min	130 min
70%	-84 max	-64 max	280 min	138 min

**Boiling point shown using conventional 15 psi radiator cap.*



Nitrite Free
 Extended Life Heavy Duty
 Antifreeze/Coolant
CONCENTRATE



Characteristic	Typical Physical Characteristics	ASTM Method
Chloride	25 ppm, max.	D3634
Specific gravity, 60/60°F	1.110-1.145	D1122
Boiling Point, undiluted	325°F/162°C min.	D1120
Boiling Point, 50% V/V	226°F/107°C min.	D1120
Freezing Point, 50% V/V	-34°F/-36°C min.	D1177
Effect on engine or vehicle finish	No effect	--
Ash content, mass %	2.5 max.	D1119
pH, 50% V/V	7.5-9.0	D1287
Reserve alkalinity*	None specified	D1121
Water mass %	2.8 max.	D1123
Color	Red	--
Effect on nonmetals	No adverse effect	--
Storage stability	> 1 year	--
Foaming	150 ml vol., max. 5 sec. break, max.	D1881
<p><i>*Reserve alkalinity (RA) is a term used to indicate the amount of alkaline inhibitors present in an antifreeze formulation. It is incorrect to relate a high RA with high-quality antifreeze. Many antifreeze formulations contain new inhibitors which give added protection to certain metals but do not raise the RA numbers.</i></p>		

NOTE: Used antifreeze coolant in most states is not hazardous unless it contains more than 5 ppm of lead. We recommend that spent coolant never be disposed of by dumping into a storm sewer or onto the ground. Instead, contact your local municipality for instructions on where to and how to properly dispose of this coolant and protect our environment.