



Arctic Wave Y50

Pre-diluted 50/50, Heavy-Duty OAT, Nitrite Free, Multiple Organic Acids, Extended Life Antifreeze/Coolant

Industry

Standards

ARCTIC WAVE Y50

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 329/338*

Formulated for meeting CAT EC-1 specifications.

**The Maintenance Council of the American Trucking Assoc. Antifreeze also meets the non-phosphate requirements of European OEM's and non-silicate requirements of Japanese OEM's*



ARCTIC WAVE Y50 is a new generation, extended life antifreeze for use in both light and heavy-duty service. It is formulated to provide superior corrosion protection and durability under the more demanding conditions of higher combustion temperatures and cylinder pressures of the latest low-emission engines. **ARCTIC WAVE Y50** is specifically designed to protect the aluminum and magnesium alloys being used in today's high-performance engines. Additionally, it protects all the traditional engine metals including steel, cast iron, copper, brass and solder.

As an all-organic formulation, **ARCTIC WAVE Y50** does not contain any conventional inorganic salts (free of nitrite, nitrate, silicate, phosphate and borate), amines or 2-ethylhexanoic acid. It employs advanced multi-functional organic acid technology that combines three types of corrosion protection in one molecule, and uses this in combination with other organic di-acids and azoles. This new type of additive/corrosion inhibitor system minimizes deposit formation, protects all types of metal, has high compatibility with non-metal components (plastics and elastomers), and provides outstanding cylinder liner cavitation/pitting protection. The coolant's performance is further enhanced with anti-scalant, anti-fouling, and water pump lubrication additives.

ARCTIC WAVE Y50 is formulated to be compatible with all types of coolant technologies.

ARCTIC WAVE Y50 meets ASTM D6210, the specification for fully-formulated, heavy-duty applications without the use of SCA's or extenders. It provides cooling system protection for 600,000 on-road miles, or longer. In off-road and stationary engines, it provides protection for 12,000 hours or 6 years, whichever comes first. Longer service life is possible with a strong coolant maintenance program. If required, a concentrated booster is available for restoring the inhibitor content when coolant loss has been made-up with water or to extend the coolant service life beyond the standard miles/hours.

It is recommended that in-service coolant be inspected at a 90-day interval to detect any obvious contamination, phase separation, cloudiness, precipitation or significant pH change. A full analysis is recommended at least every 300,000 miles, or when visual and pH checks indicate a problem.

ARCTIC WAVE Y50 is available in 55 gallon drums and 275 gallon totes.

Physical Properties

Antifreeze	Mass %	48.0 min.
Corrosion Inhibitors	Mass %	4.0 min.
Water	Mass %	48.0 min.
Flash Point	°F	None
Weight per gallon at 60° F-16° C	lbs.	9.0 min.
Silicates	mass %	Nil

ARCTIC WAVE Y50 appearance.



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Characteristic	Specification	Typical	ASTM Method
Chloride	25 ppm, max.	Pass	D3634
Specific gravity, 60/60°F	1.065 min	1.072-1.080	D1122
Boiling Point, 50% V/V (@15psi)	260°F min.	265	D1120
Freezing Point, 50% V/V (@15psi)	-34°F	-34	D1177
Effect on engine or vehicle finish	No effect	None	--
Ash content, mass %	2.5 max.	1.0	D1119
pH, 50% V/V	8.0-9.0	8.0 - 8.5	D1287
Reserve alkalinity	3 min.	3.0-3.5	D1121
Color	Distinctive	Golden Yellow	--
Effect on nonmetals	No adverse effect	Pass	--
Storage stability	None specified	> 1 year	--
Foaming	150 ml vol., max. 5 sec. break, max.	Pass	D1881

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.