



GIANT ANTIFREEZE

Propylene Glycol Based Concentrated Engine Coolant with Organic Additive Technology (OAT)

DESCRIPTION

GIANT ANTIFREEZE is formulated to absorb and remove excess heat from the engine block to the radiator so as to prevent overheating and to ensure that the engine operates at its optimally efficient temperatures. The Anti-Freeze properties are also ideal for freeze protection when required at temperatures below freezing point.

Formulating with a Propylene Glycol base results in low toxicity and limits environmental damages in the event of wrongful or accidental disposals. 2-4 ounces of Ethylene Glycol (commonly used in conventional coolants) can be fatal if ingested by an adult human but Propylene Glycol is a common food additive that is not harmful to humans if ingested in moderate amounts. Propylene Glycol also exhibits superior cavitation erosion protection and heat transfer properties when compared to Ethylene Glycol.

The unique blend of Organic Additive Technology (OAT) type of corrosion inhibitors prevents pitting, scale & rust formation, on the metal surfaces of the cooling system. This prevents leakages and extends the lifespan of the cooling system. OAT components are also non-toxic and readily biodegradable. Silicate free - avoids silicate gelation and related fallout issues. Amine, borate, nitrite and silicate free - meeting the basic chemistry requirements of Asian OEM's. Phosphate free - meeting some basic chemistry requirements of European and some North American OEM's.

GIANT ANTIFREEZE can typically last up to 3 years or 100,000 km in Automotive applications, and up to 2 years or approximately 320,000 km in Heavy Duty applications.

PROPERTIES

Physical State	Liquid
Color	Fluorescent Green
pH Value	8 - 10
Solubility in Water	Soluble
Density	1.05 ± 0.03 kg/m3
Boiling Point (1:1 dilution)	107.2 °C @ 101 kPa
Freezing Point (1:1 dilution)	-40.3 °C

BENEFITS

- Engine warms up quickly.
- Increases cooling efficiency.
- Contains OAT corrosion and rust inhibitors.
- Special additives to protect metal components within cooling system.
- No harsh chemical.
- Amine, borate, nitrite, phosphate and silicate free.

TYPICAL APPLICATIONS

GIANT ANTIFREEZE can be used in the cooling systems of automobiles, trucks, vessels, aviation equipment, compressors, motors, generators and other heavy machineries. GIANT ANTIFREEZE is also ideal for systems where incidental contact may be possible on food or beverages, like within a food/beverage processing plant.