

Antifreeze Protector Alpha-11

Protection without a warning



Free of phosphates, nitrates, 2-EHA

Fernox Antifreeze Protector Alpha-11 is a combined antifreeze and corrosion inhibitor based on monopropylene glycol, a safer, food-grade glycol. It is formulated to protect heating, chilled water, geothermal, and data center cooling systems – including those with aluminum heat exchangers – from frost, corrosion, and limescale.

Unlike many antifreezes, **Fernox Antifreeze Protector Alpha-11** does not contain phosphates, nitrates, or 2-ethylhexanoic acid. These additives are often why many glycols carry hazard warnings – because they can be hazardous to health and harmful to the environment. **Fernox Antifreeze Protector Alpha-11** offers a non-toxic, NSF HT1-certified formulation, safe for incidental food contact and ready to use with municipal/ city water. It's pH-stable, environmentally responsible, and safe for the installer and the system.



Nonfood Compounds
HT1



Why use Fernox Antifreeze Protector Alpha-11?

- Ideal for single-walled heat exchangers – NSF HT1 certified for incidental food contact
- Environmentally friendly formulation: nitrite, nitrate, phosphate and EDTA free
- Protected system = reduced risk of breakdown and lower maintenance costs
- No need for a winter system drain down
- Deionized water not required. Buffers city and well water pH to neutral levels. Stable with hard water
- Compatible with all metals and materials commonly found in a hydronic heating system
- Frost protection down to -29.2 °F
- Contains an antiscalant to protect against limescale formation

Comparison

	Us	Them
Safer for the installer - not hazardous to human health	✓	
Aluminum safe	✓	✓ not always
pH stable	✓	✓
Ready to use with mains water	✓	
Not harming eco systems	✓	
Premium quality and cost efficiency	✓	

Technical information

Fernox recommends untreated systems are thoroughly cleansed and flushed using **Fernox Cleaner F3** before treating with **Fernox Antifreeze Protector Alpha-11**, as existing debris can damage the installation.



Physical properties

Fernox Antifreeze Protector Alpha-11 contains monopropylene glycol.

Color	Blue	pH (conc)	7.0 – 7.7
Odor	Mild	pH (soln 25%)	7.0 – 7.8
Form	Clear liquid	Specific Gravity	1.04

Concentration	30%	35%	40%	45%	50%
Protection*	5°F	-0.4°F	-7.6°F	-16.6°F	-29.2°F
Flow Point**	-0.4°F	-11.2°F	-22°F	-31°F	-42°F
Burst point deg F	-20	-40	-60	-70	-80

* First few ice crystals.

** The Flow Point range is the approximate temperatures at which mixtures will still flow and prevent frost damage. Heating appliance must not be used if the mixture is too thick to be circulated freely by the pump.

Antifreeze Protector Alpha-11

		Product Code	Gallon Size
Antifreeze Protector Alpha-11	Concentrate	155738-0005	5 Gallon
	Concentrate	155738-0015	15 Gallon
	Concentrate	155738-0055	55 Gallon
	Concentrate	155738-0330	330 Gallon
Antifreeze Protector Alpha-11	Premix 30%	174819-0005	5 Gallon
	Premix 30%	174819-0015	15 Gallon
	Premix 30%	174819-0055	55 Gallon
	Premix 30%	174819-0330	330 Gallon
Antifreeze Protector Alpha-11	Premix 35%	244338-0005	5 Gallon
	Premix 35%	244338-0015	15 Gallon
	Premix 35%	244338-0055	55 Gallon
	Premix 35%	244338-0330	330 Gallon
Antifreeze Protector Alpha-11	Premix 40%	174821-0005	5 Gallon
	Premix 40%	174821-0015	15 Gallon
	Premix 40%	174821-0055	55 Gallon
	Premix 40%	174821-0330	330 Gallon
Antifreeze Protector Alpha-11	Premix 45%	244337-0055	55 Gallon
	Premix 45%	244337-0330	330 Gallon
Antifreeze Protector Alpha-11	Premix 50%	175578-0005	5 Gallon
	Premix 50%	175578-0015	15 Gallon
	Premix 50%	175578-0055	55 Gallon
	Premix 50%	175578-0330	330 Gallon

Application and dosage

In order to ensure adequate corrosion protection the minimum recommended 'in use' concentration of the product is 25%. This concentration will protect down to 12.2 °F/-11 °C. A concentration of 50% will protect down to -29.2 °F/-34 °C. **Antifreeze Protector Alpha-11** can be introduced via the feed and expansion tank or injected directly into the system via a suitable point (e.g. system feeder). Introduce into the system after draining a quantity of water at least equal to the amount of **Antifreeze Protector Alpha-11** to be added. Engage the circulating pump and ensure the system is online for a few hours in order to achieve an even distribution. **Antifreeze Protector Alpha-11** can be used with regular onsite water with no need to adjust the pH prior to application.

Antifreeze Protector Alpha-11 is available as concentrated or premix formulations.

Packaging, handling and storage

Fernox Antifreeze Protector Alpha-11 is supplied in 5, 15, 55 and 330 Gallon containers.

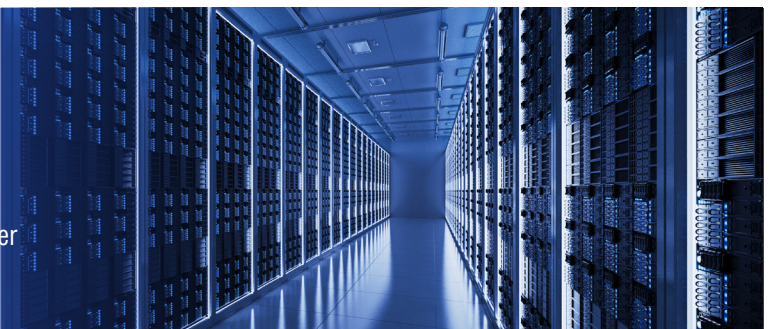
Fernox Antifreeze Protector Alpha-11 is classified as non-hazardous and non-irritant but, as with all chemicals, keep out of reach of children. Only mix with Fernox products/chemicals. Do not take internally. In case of contact with eyes or skin, rinse immediately using plenty of water.

Why Fernox?

Quality, simplicity and uncompromising commitment to technical excellence are at the heart of the Fernox philosophy. Each and every product is developed with its user in mind. Antifreeze Protector Alpha-11 not only prevents frost damage, but protects and extends the lifespan of heating systems. With over 60 years of experience and millions of satisfied customers, history speaks for itself.

Ideal for data centers

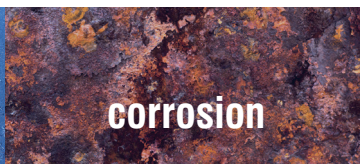
Preferred by the professional teams who service high-performance US data centres, Fernox Antifreeze Protector Alpha-11 provides premium corrosion protection for critical copper components – ensuring uninterrupted operation under continuous high-temperature and high-load conditions.



3-in-1 solution protects against...



frost



corrosion



scale