

# Antifreeze Protector Alpha-11

**Fernox Antifreeze Protector Alpha-11** is a combined glycol antifreeze and inhibitor offering long-term protection against frost, internal corrosion and limescale in heating and chilled water systems, including geothermal systems.

Compatible with all metals and materials commonly used in hydronic systems, including aluminum, **Antifreeze Protector Alpha-11** is proven to work efficiently and has been tried and tested on installations worldwide.



3-in-1 solution  
protects against...



## Why use Fernox Antifreeze Protector Alpha-11?

- Frost, corrosion and scale protection
- NSF HT1 registered product – certified safe for 'incidental food contact' and ideal for use with single walled heat exchangers
- Protected system = reduced risk of breakdown and lower maintenance costs
- No need for a winter system drain down
- Deionized water or soft water not required. Fernox Antifreeze Protector Alpha-11 will buffer onsite city and well water pH to neutral levels. It is also both stable and compatible with hard water
- Compatible with all metals and materials commonly found in a hydronic heating system
- Frost protection down to -29.2 °F
- Environmentally friendly formulation: nitrite, nitrate, phosphate and EDTA free
- Contains an antiscalant to protect against limescale formation



Nonfood Compounds  
HT1



## 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.

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

### 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 60 years of experience and millions of satisfied customers, history speaks for itself.

#### Fernox US Customer Service:

1-814-940-3836

email: [usa@fernox.com](mailto:usa@fernox.com) [www.fernox.us](http://www.fernox.us)

### ANTIFREEZE PROTECTOR ALPHI-11

		Product Code	Gallon Size		
<b>Antifreeze Protector Alpha-11</b>	Concentrate	155738-0005	5 Gallon		
	Concentrate	155738-0015	15 Gallon		
	Concentrate	155738-0055	55 Gallon		
	Concentrate	155738-0330	330 Gallon		
<b>Antifreeze Protector Alpha-11</b>	Premix 30%	174819-0005	5 Gallon		
	Premix 30%	174819-0015	15 Gallon		
	Premix 30%	174819-0055	55 Gallon		
	Premix 30%	174819-0330	330 Gallon		
<b>Antifreeze Protector Alpha-11</b>	Premix 35%	244338-0005	5 Gallon		
	Premix 35%	244338-0015	15 Gallon		
	Premix 35%	244338-0055	55 Gallon		
	Premix 35%	244338-0330	330 Gallon		
<b>Antifreeze Protector Alpha-11</b>	Premix 40%	174821-0005	5 Gallon		
	Premix 40%	174821-0015	15 Gallon		
	Premix 40%	174821-0055	55 Gallon		
	Premix 40%	174821-0330	330 Gallon		
<b>Antifreeze Protector Alpha-11</b>	Premix 45%	244337-0055	55 Gallon		
	Premix 45%	244337-0330	330 Gallon		
<b>Antifreeze Protector Alpha-11</b>	Premix 50%	175578-0005	5 Gallon		
	Premix 50%	175578-0015	15 Gallon		
	Premix 50%	175578-0055	55 Gallon		
	Premix 50%	175578-0330	330 Gallon		
<b>Concentration</b>	<b>30%</b>	<b>35%</b>	<b>40%</b>	<b>45%</b>	<b>50%</b>
<b>Protection*</b>	<b>5°F</b>	<b>-0.4°F</b>	<b>-7.6°F</b>	<b>-16.6°F</b>	<b>-29.2°F</b>
<b>Flow Point**</b>	<b>-0.4°F</b>	<b>-11.2°F</b>	<b>-22°F</b>	<b>-31°F</b>	<b>-42°F</b>
<b>Burst point deg F</b>	<b>-20</b>	<b>-40</b>	<b>-60</b>	<b>-70</b>	<b>-80</b>

\* 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