

## ANTIFREEZE PROTECTOR ALPHI-11

Fernox Antifreeze Protector Alphi-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.

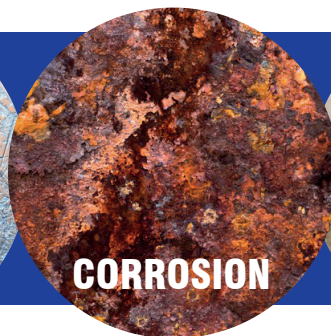
Compatible with all metals and materials commonly used in hydronic systems including aluminum, **Antifreeze Protector Alphi-11**, is proven to work efficiently and has been tried and tested on installations worldwide.



### 3 IN 1 SOLUTION PROTECTS AGAINST...



FROST



CORROSION



SCALE

### Why use Fernox Antifreeze Protector Alphi-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 drain down
- Deionized water or soft water not required. Fernox Antifreeze Protector Alphi-11 will buffer on-site 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

### Physical Properties

Fernox Antifreeze Protector Alphi-11 contains monopropylene glycol.

<b>Colour</b>	Blue
<b>Odour</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

The minimum recommended 'in-use' concentration of the product is 25% in order to ensure adequate corrosion protection. 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 Alphi-11** can be introduced via the feed and expansion tank or injected directly into the system via a suitable point (e.g. dosing pot). Introduce into the system after draining a quantity of water at least equal to the amount of **Antifreeze Protector Alphi-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 Alphi-11** can be used with regular on-site water with no need to adjust the pH prior to application.

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

Concentration	25%	30%	35%	40%	45%	50%
<b>Protection*</b>	12.2 °F	5 °F	-0.4 °F	-7.6 °F	-16.6 °F	-29.2 °F
<b>Pasty Range**</b>	5 °F	-4 °F	-11.2 °F	-22 °F	-31 °F	-42 °F
<b>Burst point</b>	0 °F	-20 °F	-40 °F	-60 °F	-70 °F	-80 °F

\* First few ice crystals. \*\* The pasty 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.

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

## PACKAGING, HANDLING AND STORAGE

### Fernox Antifreeze Protector Alphi-11 is supplied in 5, 55 and 330 Gallon containers

Fernox **Antifreeze Protector Alphi-11** is classified as non-hazardous and non-irritant, but as with all chemicals keep out of reach of children. Do not mix with other chemicals with the exception of Fernox products. Do not take internally. In case of contact with eyes or skin, rinse immediately with 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 the user in mind. **Antifreeze Protector Alpha-11** not only prevents frost damage, but protects and extends the lifespan of the heating systems.

With over 55 years of experience and millions of satisfied customers, history speaks for itself.

<b>ANTIFREEZE PROTECTOR ALPHI-11</b>		
	Size	Product Code
	<b>5 Gallon</b>	<b>155738-0005</b>
	<b>55 Gallon</b>	<b>155738-0055</b>
	<b>330 Gallon</b>	<b>155738-0330</b>

<b>ANTIFREEZE PROTECTOR ALPHI-11 - PREMIX 5 GALLON</b>		
% Premix	Size	Product Code
<b>30% Premix</b>	<b>5 Gallon</b>	<b>174819-0005</b>
<b>35% Premix</b>	<b>5 Gallon</b>	<b>244338-0005</b>
<b>40% Premix</b>	<b>5 Gallon</b>	<b>174821-0005</b>
<b>45% Premix</b>	<b>5 Gallon</b>	<b>244337-0005</b>
<b>50% Premix</b>	<b>5 Gallon</b>	<b>175578-0005</b>

<b>ANTIFREEZE PROTECTOR ALPHI-11 - PREMIX 55 GALLON</b>		
% Premix	Size	Product Code
<b>30% Premix</b>	<b>55 Gallon</b>	<b>174819-0055</b>
<b>35% Premix</b>	<b>55 Gallon</b>	<b>244338-0055</b>
<b>40% Premix</b>	<b>55 Gallon</b>	<b>174821-0055</b>
<b>45% Premix</b>	<b>55 Gallon</b>	<b>244337-0055</b>
<b>50% Premix</b>	<b>55 Gallon</b>	<b>175578-0055</b>

<b>ANTIFREEZE PROTECTOR ALPHI-11 - PREMIX 330 GALLON</b>		
% Premix	Size	Product Code
<b>30% Premix</b>	<b>330 Gallon</b>	<b>174819-0330</b>
<b>35% Premix</b>	<b>330 Gallon</b>	<b>244338-0330</b>
<b>40% Premix</b>	<b>330 Gallon</b>	<b>174821-0330</b>
<b>45% Premix</b>	<b>330 Gallon</b>	<b>244337-0330</b>
<b>50% Premix</b>	<b>330 Gallon</b>	<b>175578-0330</b>



[www.fernox.com](http://www.fernox.com)

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