

ANTIFREEZE PROTECTOR ALPHI-11

Fernox Antifreeze Protector Alphi-11 is a combined antifreeze and inhibitor. Offering long-term protection against frost, internal corrosion and limescale in heating and chilled water systems, the product's performance and environmental credentials are first class.

Compatible with all metals and materials commonly used in heating 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
- 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 tap and well water pH to neutral levels and will also reduce hardness levels to less than 120ppm / 7 grains.
- Compatible with all metals and materials commonly found in a heating system
- Frost protection down to -29.2°F
- Accredited with global environmental approvals: KIWA, Belgaqua, BuildCert and EST
- Environmentally friendly formulation, Nitrite, Nitrate, Phosphate and EDTA free



TECHNICAL INFORMATION

Physical Properties

Fernox Antifreeze Protector Alphi-11 contains monopropylene glycol.

| | |
|----------------------|--------------|
| Colour | Colourless |
| Odour | Mild |
| Form | Clear liquid |
| pH (conc) | 5.7 – 6.1 |
| pH (soln 25%) | 7.0 – 7.5 |



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 -11°C/12.2°F. A concentration of 40% will protect down to -22°C/-7.6°F. 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.

| Concentration | 25% | 30% | 35% | 40% | 45% | 50% |
|-----------------------|--------|-----|--------|--------|---------|---------|
| Protection | 12.2°F | 5°F | -0.4°F | -7.6°F | -16.6°F | -29.2°F |
| Burst point °F | 0 | -20 | -40 | -60 | -70 | -80 |

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

Hardness Fill Water spec limits

Fernox Antifreeze Protector Alphi-11 has ability to buffer high hardness levels up to 1300 ppm/ 70 grains. Above these levels it is recommended to use two options. Option 1. After dosing Antifreeze Protector Alphi-11 use a Fernox Water Test Kit and check hardness levels once it has circulated in the system. If still above 120 ppm/ 7 grains add additional Fernox Protector F1 inhibitor to the system to lower hardness further. Option 2. In many cases where extreme hardness is present a demineralizer filter can also be used if desired.

Iron Content Protection

Typical clear water high iron content is in range of 3-6 mg/L and even worse the red iron water is approx. 15-20 mg/L. Fernox will protect up to 80 mg/L.



PACKAGING, HANDLING AND STORAGE

Fernox Antifreeze Protector Alpha-11 is supplied in 5 and 55 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. Do not mix with other chemicals with the exception of Fernox products. Do not take internally. May cause an allergic reaction. Contains 1,2-benzisothiazol-3(2H)-one. In case of contact with eyes or skin, rinse immediately with plenty of water.

Manufacture & Approvals

Fernox manufactures Antifreeze Protector Alpha-11 at its dedicated US facility, which assures quality products and guaranteed availability. Accredited with global environmental approvals: KIWA, Belgaqua, BuildCert and EST.



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



Product Numbers:
5 Gallon - 155738-0005
55 Gallon - 155738-0055

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