

## Protector F1 500ml

### 57880

- Protects against corrosion and scale in mixed metal central heating systems to prevent breakdown and premature boiler failure
- When used in conjunction with Cleaner F3 gas savings of up to 15% can be achieved every time you heat your room
- Stops frequent venting of radiators and prevents cold spots
- Reduces maintenance costs, maintains energy efficiency and saves on fuel bills
- Supports boiler manufacturer's warranty requirements
- High performance, non-toxic, environmentally friendly - NSF CIAS, KIWA and Belgaqua approved formulation



Protector F1 is the market leading inhibitor which prevents corrosion and limescale formation in central heating systems. This high performance product offers superior protection by uniquely combining three inhibitors of organic particles, which bind to the metal within the heating system to protect from debris alongside anodic inhibitors which react with the system's metal surface to create a protective layer, and cathodic inhibitors that combine with hard water salts to form an insoluble layer. Fernox Protector F1 also includes enhanced pH buffering to ensure the system water pH level does not drop below 6.5 or above 8.5 - the optimum pH range for preventing corrosion and limescale buildup. In line with local regulations and best practice, and for long-term protection of the system, concentration levels should be maintained and checked annually as part of the boiler or system service. Protector F1 is compatible with all other Fernox products and is suitable for use with all materials and metals used in central heating systems, including aluminium.

### Application

Fernox Protector F1 gives long-term protection of domestic central heating systems against internal corrosion and limescale formation. It is suitable for all types of boiler, radiators and pipework systems. Protector F1 is compatible with all metals and materials commonly used in central heating systems. It is suitable for use with all types of water, including softened water and deionised water. A single dose of this product treats and protects a larger sized property with a heating system of 34 gallons, up to 16 radiators, or 250 sqm of underfloor heating. For open vented systems add via the feed and expansion tank. For sealed systems add via a suitable dosing point (e.g. a towel rail, or an in-line system filter). Alternatively, use a suitable dosing vessel to inject the product into the system. In single feed indirect cylinders, e.g. 'Primatic' or similar, potable water chemicals must be used. Protector F1 has been formulated to have best-in-class pH buffering ability, which keeps system water pH between 6.5-8.5, giving optimum protection for mixed metal systems. To comply with BS 7593:2019, Protector F1 levels should be checked annually. The concentration of the product can be easily measured on site using a Fernox Protector Test Kit, or by using the Fernox Water Quality Test postal service. BS 7593:2019 also states that after 5 years systems should either be re-dosed, or a laboratory test performed, such as the Fernox Water Quality Test.

"If you protect a central heating system using Fernox Protector F1, after cleaning with Fernox Cleaner F3, you can restore and maintain system efficiency, resulting in a gas saving of up to 15% every time you heat your room. This saving is equivalent to 110 Kg CO2e per typical home per year." independently verified.

### Package, Handling & Safety

Fernox Protector F1 is supplied in 500 ml bottles.

Fernox Protector F1 is classified as non-hazardous for human health, but as with all chemicals, keep out of reach of children. In case of contact with eyes or skin, rinse immediately with plenty of water.

### Specification

Protector F1 is a blend of inorganic and organic corrosion and scale inhibitors.

Form: Light yellow liquid

Odour: Slightly aromatic

pH (conc.): 8.3

pH (in-use): 7.8-8.5

SG: 1.14 at 20 °C

#### Single Item

<b>Height mm</b>	182
<b>Width mm</b>	88
<b>Depth mm</b>	52
<b>Weight kg</b>	0.500
<b>Barcode EAN</b>	5014551578807

#### Outer Carton

<b>Outer Height mm</b>	195
<b>Outer Width mm</b>	265
<b>Outer Depth mm</b>	180
<b>Outer Weight kg</b>	6.130
<b>Transit Type</b>	CP1 1200 x 1000
<b>Units per carton</b>	10
<b>Cartons per layer</b>	20
<b>Total units per transit layer</b>	200
<b>Layers per transit type</b>	4
<b>Total units per transit type</b>	800

**Last modification** 22-02-2022 (d/m/y)