

Sentinel X500

Inhibited Antifreeze for Hydronic Heating Systems

Features & Benefits

- Controls scale and corrosion
- Effective frost protection
- Helps prevent the formation of hydrogen gas
- Helps prevent boiler noise
- Suitable for all metals including aluminium
- Non-toxic and biodegradable
- Manufactured under a quality system conforming to ISO9001

Application

Sentinel X500 is a multipurpose inhibited antifreeze formulated to help control corrosion, scale, boiler noise and hydrogen gassing in all types of indirect heating systems including those containing aluminum components. If minimum levels are maintained the product ensures a permanent protection and does not need to be replaced. Sentinel X500 is suitable for use in all waters, both hard and soft. The non-toxic formulation is colorless and easy to handle.

Dosing & Feeding

The dosage of Sentinel X500 will depend on the level of frost protection required; see Table 1 below. A dosage of 20%v/v (i.e. 5 gallons of Sentinel X500 added to a system having a typical volume of 25 gallons) or more is needed to achieve the minimum concentration of corrosion and scale inhibitor.

For best results, it is recommended that systems are cleaned and flushed using a suitable Sentinel cleaning product - see the Sentinel website for guidance (www.sentinel-solutions.net). If the system is already noisy due to limescale deposits in the heat exchanger, Sentinel X200 should be added together with Sentinel X500.

Open Systems: Dose via the expansion header tank, via a by-pass feeder or use a dosing bottle.

Sealed Systems: If the system is empty, add to any convenient point before filling. If full, use a dosing bottle to inject via the filling loop or other access point.

Physical Properties

- Appearance: Clear colorless liquid
- Odor: Mild slightly sweet
- Specific gravity: 1.04 (68°F)
- pH (5% in water): 6.5 (approx)

Packaging

- 1 Gallon drum
- 5 Gallon pail

Table 1

% v/v Sentinel X500	20	25	30	35	40	45	50
Freezing Point (°F) ASTM D1177	22	17	11	5	-2	-11	-20

Product Facts

Sentinel X500

Inhibited Antifreeze for Hydronic Heating Systems	A solution of inorganic and organic corrosion and scale inhibitors in propylene glycol.
Health Hazards	Not for use in potable water systems. This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). CAUTION: May cause eye, skin, and respiratory tract irritation
Handling	Avoid contact with skin and eyes. Keep out of reach of children and animals. Wash out empty container thoroughly with water before disposal.
Storage	Keep container tightly closed. Store in cool, well ventilated area.
Spillage	Flush spillage with plenty of water and wash to waste. On soil: Absorb on to inert material and dispose of according to local Controlled Waste Regulations.
Fire/Explosion Risks	Non-flammable. Oxides of carbon and nitrogen evolved in fire.
First Aid	Skin Exposure : Wash immediately with plenty of water. Eye Exposure : Rinse immediately with plenty of water. Seek medical attention. Ingestion : Rinse mouth with water. Do NOT induce vomiting! Seek medical attention.