

### Systemsafe-DM corrosion and scale inhibitor for all types of indirect systems



- Suitable for multi-metal systems, with iron, steel, copper, brass and aluminium
- Prevents scale, sludge and magnetite formation
- Prevents micro-biological contamination
- Prevents internal pitting and galvanic corrosion
- Protects and extends life of heating systems
- 0.5% dosage rate (0.5 lt per 100lt water)
- NSF/Buildcert approval
- Benchmark compliance

#### The problem:

Corrosion, sludge, and black iron oxide deposits in heating and cooling systems result from decay of the system metals.

The decay may result from poor system design, causing air / oxygen to be taken into the system water, the presence of corrosive residues such as flux and jointing compounds, bacterial action, or electrolytic action resulting from electrical contact between mixed metals.

Corrosion products form sludge in areas of low flow, such as lower central areas of radiators, and under floor pipework, and cause fouling and failure of zone valves, circulating pumps, radiators, valves etc.

Small particles may be carried around the system and build-up in boiler and heat exchanger waterways, leading to failure of boiler sections and heat exchangers.

#### What it does:

Systemsafe-DM is a blend of corrosion and scale inhibitors, formulated to provide complete protection against corrosion and scale formation.

It gives long term protection to central heating systems, preventing corrosion, scale deposition and boiler noises, extending system life and maintaining efficiency.

#### Application:

If the system is vented, add to the feed and

expansion tank after isolating water supply and draining off an adequate quantity of water. Allow system to re-fill.

Alternatively, a SYSTEMSURE IK6 injector may be used to inject Systemsafe-DM into a radiator through an air bleed valve, or the filling loop of a sealed system. It may also be added to a system via the tank of a power flushing pump.

#### Preparation:

No corrosion inhibitor can reverse previous corrosion damage. If the water is dirty and heavily discoloured, the system should first be flushed with HyperFlush, particularly in cases where a new boiler or heat exchanger is being added to an older installation.

#### Dosage rate:

1/2 litre (500ml) of Systemsafe-DM will treat a central heating system of 100 litres capacity (approx 12 radiators).

Further addition will only be required if water losses from the system occur. Larger heating and cooling systems should be dosed at 0.5% of system volume.

#### Checking the correct treatment level:

A Systemsafe-DM test kit is available to check the treatment level. The test kit determines the level of molybdate, which will be 100 ppm at the optimum dosage rate. The kit contains tablets for fifty tests, together with test tube and instructions.

#### Pack sizes:

cartons of 12 x 500ml, 2.5 & 10 litre drums.



#### Technical data

Appearance: amber liquid

Odour: astringent

S.G. @ 20°C: 1.11

pH: 7.5

Solubility: miscible in all proportions.

Non toxic; non irritant; non hazardous.

#### Benchmark

The Benchmark Scheme aims to improve the standards of installation and commissioning of domestic heating and hot water systems in the UK and to encourage regular servicing to optimise safety, efficiency and performance. Installers are required to carry out installation, commissioning and servicing work in accordance with the Benchmark Code of Practice which is available from the Heating & Hot water Industry Council at [www.centralheating.co.uk](http://www.centralheating.co.uk)



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THE MARK OF QUALITY FOR THE INSTALLATION, COMMISSIONING  
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