

NANOSAFE X

Molybdate-based corrosion and scale inhibitor for closed loops

Product Description

NANOSAFE X is a molybdate-based water treatment chemical developed for closed-loop heating, cooling, and hot water circulation systems. Its formulation keeps precipitated scale from adhering to system surfaces, prevents corrosion from forming on metal surfaces, and stabilizes dissolved minerals to prevent precipitation — ensuring long-term system protection and efficient heat transfer.

Technical Properties

Physical State	Liquid	pH	7 - 9
Colour	Light yellow	Density	1.20 - 1.30 g/cm ³
Odour	Mild		

Product Information

- Prevents corrosion from forming on metal surfaces.
- Stabilizes hardness ions and prevents deposits.
- Maintains clean heat transfer surfaces and improves system efficiency.
- Extends equipment life and reduces maintenance frequency.
- Compatible with multi-metal systems, including steel, copper, and alloys.

Application Areas

- Closed-loop heating and cooling systems.
- Hot water circulation systems.
- Industrial heat exchangers.
- HVAC and process water systems.

Chemical Characteristic

Molybdate-based corrosion protection with a phosphonate system that keeps precipitated scale suspended to prevent adherence on surfaces. Prevents corrosion from forming on metal surfaces and includes stabilizers to prevent precipitation of dissolved minerals. Thermally stable formulation suitable for closed-loop systems.

Usage Information

Product should be dosed continuously into the system.

Typical dosage range: 0.3 – 0.6 L per m³ of system volume (depending on water quality and operating conditions).

System parameters such as hardness, conductivity, and pH should be monitored regularly.

Periodic system analysis is recommended to ensure optimal performance.

Packaging

Available packing sizes are 1 kg, 25 kg and 1000 kg IBC

Storage & Shelf Life

- Store in original containers in a cool, dry, and well-ventilated area.
- Keep tightly closed. Protect from freezing and excessive heat.
- When stored under recommended conditions, the product has a shelf life of 24 months.

Safety

May cause skin and eye irritation. Use appropriate PPE including gloves and eye protection. Avoid contact with skin and eyes; do not breathe vapours or mist.