

FINEAMIN 24

POLYMERS-BASED SCALE INHIBITOR FOR STEAM PRODUCTION SYSTEMS AND CLOSED CIRCUITS FED WITH SOFTENED OR PARTIALLY / TOTALLY DEMINERALISED WATER

ADVANTAGES

- Efficient, on-line cleaning solution
- Dispersion and removal agent for existing scale and deposits
- Hardness stabiliser
- Reliable protection against corrosion and future deposits
- Formation of a stable, thin and homogeneous magnetite protection layer
- Salt-free product, leading to savings in water consumption
- Ecologically and toxicologically harmless, ready-to-use mixture
- 70% bio-degradable

MODE OF ACTION

FINEAMIN 24 is a ready-to-use organic liquid, a mixture of sequestrant and dispersing polymers allowing simultaneously to reach the following results:

- to eliminate the old corrosion and avoid the formation of any new one boiler side;
- to eliminate the existing scale and avoid the formation of any new one, particularly in the boilers and the heat transfer surfaces.

The product plays a double role as hardness stabiliser and dispersing agent for steam and cooling circuits. Independently tested by the German Hygiene-Institut des Ruhrgebiets, FINEAMIN 24 does not have any volatile components and has been approved as scale inhibitor fit for steam generation in food industry and hospitals.

ENVIRONMENTAL COMPATIBILITY

FINEAMIN 24 is almost bio-degradable and contains no dangerous products. Its toxicity class for water is class 1, less pollutant. A system treated by FINEAMIN 24 can be drained in a sewage treatment plant with out any problem. (Respecting the local limits for pH and temperature).

APPLICATION AND DOSING

FINEAMIN 24 is not dosed in a stoichiometric way. The dosage rate does not need to be adjusted to every change of water condition. It is injected generally in a single point of the plant, using the existing dosing pumps and tanks.

The dosing rate varies in function of the plant and the water quality between 5 and 15 ppm, proportional to the feed water rate. In a closed circuit, the dosing rate of FINEAMIN 24 is 0.3 to 1.0 kg / m³ of water content or make up water.

DELIVERY

FINEAMIN 24 is delivered as liquid solution in drums of 30 kg, 60 kg or 210 kg. For major customers, the product is available in standard containers of 1000 kg. In closed drums, with an ambient temperature range from -5°C to 45°C, it can be stored for up to 5 years.

PROPERTIES AND INFORMATION

PHYSICAL

Form:	Liquid	Boiling point/range:	100°C
Colour:	Colourless	Density at 20°C:	1 +/- 0.1 g/cm ³
Odour:	Characteristic	pH-value at 20°C:	ca.12.5
Odour threshold:	nd	Vapour density:	nd
Melting point/range:	-10°C	Evaporation rate:	nd

ECOLOGICAL

Aquatic toxicity:	no relevant information available
Persistence and degradability:	70% biodegradable

THE FINEAMIN PRODUCTS FAMILY



FOR BOILERS / STEAM GENERATORS CLOSED LOOP COOLING OR HEATING

PRODUCT NAME	ACTIVE INGREDIENTS	TYPICAL USES
FINEAMIN 06	Polyamines & polymers	General boiler treatment, power plants <120 bars, refineries
FINEAMIN 06C	Polyamines & polymers, concentrated	Refineries, industrial processes
FINEAMIN 06 SCAV	Polyamines, polymers, oxygen scavenger	Same as FINEAMIN 06. Used for high oxygen levels in feed water
FINEAMIN SCAV 35	Oxygen scavenger amines	Oxygen reduction < 120bars
FINEAMIN 90	Polyamines	Power plants > 120 bars
FINEAMIN 24	Polymers	Maintain high pH
FINEAMIN 39	Polyamines, polymers	General boiler treatment
FINEAMIN 29	Polyamines, polymers, copper inhibitor	Closed cooling with copper

Available packaging, CP9 pallets: 30kg drum / 28 in pallet - 60kg drum / 8 in pallet - 210kg drum / 4 in pallet - 1'000kg IBC / 1 in pallet

FOR OPEN COOLING

PRODUCT NAME	ACTIVE INGREDIENTS	TYPICAL USES
FINEAMIN 47	Film-forming amines, polymers	Corrosion and scale inhibitor
FINEAMIN 91	Polycarboxylic acid, phosphonic acid	Corrosion and scale inhibitor
FINEAMIN 92	Polycarboxylic acid, phosphonic acid, zinc	Corrosion and scale inhibitor
FINEAMIN 95T	Environmentally friendly phosphates	Corrosion and scale inhibitor
FINEAMIN 81	Co-polymers	High-stress dispersant
FINEAMIN FINALGA ME	Isothiazoline	Biocide
FINEAMIN FINALGA 25	Quaternary ammonium	Biocide
FINEAMIN Biodispersant BOD		Biocide

Available packaging, CP9 pallets: 30kg drum / 28 in pallet - 60kg drum / 8 in pallet - 210kg drum / 4 in pallet - 1'000kg IBC / 1 in pallet



**HYDROPHOBIC
FILM FORMING
POLYAMINES**

