FINEAMIN®
SWISS WATER-TREATMENT CHEMICALS

PROVEN ANTICORROSION FILM FORMING WATER TREATMENT CHEMICALS

FINEAMIN 39

POLYAMINES-BASED FILM-FORMING CORROSION AND SCALE INHIBITOR FOR LOW PRESSURE STEAM GENERATORS & CLOSED CIRCUITS, NSF® FOOD SAFETY CERTIFICATION

ADVANTAGES

- Anticorrosion protection by surface-active filming polyamines
- Dispersion and removal of existing corrosion products and deposits
- Formation of a stable, thin and homogeneous magnetite protection layer
- Alkalization of the whole water-steam circuit
- Prevention of calcium carbonate and other mineral salts deposits
- Combination of ecologically harmless components in one solution
- Neutralization of carbon dioxide also in steam and condensate
- Increasing heat transfer leading to reduced energy consumption
- Ecologically and toxicologically harmless, bio-degradable
- Reduction of blowdown water ratio due to organic salt free components

MODE OF ACTION

FINEAMIN 39 is a mixture of volatile, alkalizing film-forming polyamines and alkaline dispersing polymers. The surface-active polyamines enhance the formation of a thin, homogeneous magnetite protection layer with a very stable structure. This protection layer prevents the contact of the electrolyte with the metal surface without reducing the heat transfer. FINEAMIN 39 protects the whole system, inclusive steam and condensate pipes, due to the high distribution coefficient of the alkalizing components and the volatile amines. The combination of surface-active polyamines and alkalizing polymers leads to a very effective protection against the corrosion process and scale deposition. Existing corrosion products and deposits get dispersed and gently removed. Using salt-free FINEAMIN products leads to savings in water consumption and due to the improved heat transfer, to reduced energy consumption. The performance of the whole plant is increased and the overall system protection is improved, while the costs of operation decrease significantly.

ENVIRONMENTAL COMPATIBILITY

FINEAMIN 39 has been independently tested and confirmed as ecologically and toxicologically harmless by medical and hygiene institutes. Furthermore, it is almost entirely bio-degradable. For more details see EU safety data sheet.

APPLICATION AND DOSING

FINEAMIN 39 generally gets injected as a diluted solution in a single point of the plant, using an adequate dosing station. The required product quantity is calculated by the service engineer according to the water quality and the condition of the plant.
The dosing point for steam generation plants should be fixed into the feed water pipe after degasification and after the attemperator spray water extraction pipe. The determination of the FINEAMIN excess can be done with a test kit or by using a photometric test.

DELIVERY

FINEAMIN 39 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/cm³
Odour:	Characteristic	pH-value at 20°C:	+/-1.5
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

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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	Polycarboxilic acid, phosphonic acid	Corrosion and scale inhibitor
FINEAMIN 92	Polycarboxilic acid, phosphonic acid, zinc	Corrosion and scale inhibitor
FINEAMIN 95T	Environementaly friendly phosphates	Corrosion and scale inhibitor
FINEAMIN 81	Co-polymers	High-stress dispsersant
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