POLYAMINES-BASED FILM-FORMING CORROSION AND SCALE INHIBITOR FOR WATER SYSTEMS FED WITH SOFTENED OR PARTIALLY / TOTALLY DEMINERALISED WATER

ADVANTAGES

- Corrosion 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 06 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 06 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, alkalizing polymers leads to a very effective protection against corrosion and scaling. Existing corrosion products and deposits get dispersed and removed gently. Using salt free FINEAMIN products leads to savings in water consumption and thanks to the improved heat transfer, reduced energy consumption. The performance of the whole plant gets increased, the overall system protection is improved, while the costs of operation will decrease.

ENVIRONMENTAL COMPATIBILITY

FINEAMIN 06 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 06 generally gets injected as diluted solution in a single point of the plant, using an adequate dosing station. The required quantity gets calculated by the service engineer regarding 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 extracting attemperator spray water. The determination of the FINEAMIN amount can be analyzed by a test kit or using a photometric test.

DELIVERY

FINEAMIN 06 gets delivered as a liquid solution in drums of 30 l, 60 l or 210 l. For major customers, it is available in standard containers of 1000 kg. In closed drums, with an ambient temperatures from 5°C to 45°C, it can be stored until 5 years.

PROPERTIES AND INFORMATION

PHYSICAL			
Form:	0.1.1	Boiling point/range:	
Odour:	01	Density at 20°C:	
	nd	Vapour density:	nd
Melting point/range:	- IU - U	Evaporation rate:	nd
ECOLOGICAL			

• FINEAMIN SA

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Annatic toxicity:

Persistence and degradability:

info@fineamin.com www.fineamin.com no relevant information available

..70% biodegradable

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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 OGC	Polyamines & polymers, concentrated	Refineries, Industrial processes		
FINEAMIN 06 SCAV	Polyamines, polymers,oxygen scavenger	Same as FINEAMIN 06. Use when high oxygen in feed		
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				













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