POLYMERS & POLYAMINES-BASED CORROSION & SCALE INHIBITOR FOR STEWING & BOILING OUT STEAM BOILERS, AS ALTERNATIVE TO RISKY CHEMICAL CLEANINGS

ADVANTAGES

- Risk-free substitution for caustic soda / acid chemical cleaning
- Combination of ecologically harmless components in one solution
- Ecologically and toxicologically harmless, bio-degradable
- Highly efficient dispersion and removal agent for existing deposits
- Prevention of calcium carbonate and other mineral salts deposits
- Anticorrosion protection by surface-active film-forming polyamines
- Improvement of magnetite layer, increased heat transfer, less tube failures
- Alkalization of the whole water-steam circuit

MODE OF ACTION

FINEAMIN 15 is a special combination of surface active, alkalizing polyamines and polyacrylates, used in stewing and boiling out steam boilers, an environmentally compliant product meant to replace dangerous acid and caustic soda chemical cleanings. Existing corrosion products and deposits from old boilers as well as grease, oil, mill scale and ferric oxides found in new boilers are easily dispersed and gently removed. Along with the boiling out, long term use of film-forming FINEAMIN 15 chemical gives the advantage of online cleaning and reduces the need for chemical cleaning at many utilities, extending the period between cleanings by years or totally canceling them.

ENVIRONMENTAL COMPATIBILITY

FINEAMIN 15 has been independently tested and confirmed as ecologically and toxicologically harmless by medical and hygiene institutes, Surface-active polyamines get adsorbed to the waste water sludge flocs where they get degraded biologically. To meet the disposal conditions of the local authorities, normally, the boiler water treated with FINEAMIN needs only to be neutralized regarding the pH value. Afterwards, it can be discharged to the municipal waste water system.

APPLICATION AND DOSING

FINEAMIN 15 is generally injected as a diluted solution, during the filling process. This can be done by using a dosing pump or directly into the steam drum before closing the boiler. During the process, the boiler can be bleeded off in regular intervals. For additional make up water, product has to be added respectively (maintenance dosage). Therefore, a dosing pump is recommended (see procedure).

1st boiling		1st boiling		blow-out	
initial dosing	maintenance dosing	initial dosing	maintenance dosing	initial dosing	maintenance dosing
2ltr/m3 boiler vol.	1ltr/m3 make-up	1ltr/m3 boiler vol.	1ltr/m3 make-up	0.5ltr/m3 boiler vol.	0.5ltr/m3 make-up

DELIVERY

FINEAMIN 15 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 Colour: Colourless Odour: Characteristic Odour threshold: nd Melting point/range: 10°C	Boiling point/range: Density at 20°C: pH-value at 20°C: Vapour density: Evaporation rate:	1+/-0.1 g/cm³

ECOLOGICAL

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









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 O6C	Polyamines & polymers, concentrated	Refineries, industrial processes		
FINEAMIN 06 SCAV	Polyamines, polymers, oxygen scavenger	Same as FINEAMIN O6. 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				











