

FINEAMIN®

The FINEST way of water treatment!



DISTRICT HEATING



FINEAMIN® – a clean solution for district heating systems and heating systems

The upstream treatment in district heating systems, boiler systems and heating systems is important to avoid damages from corrosion and deposits.

With a custom-made water chemical treatment an increase of the efficient and economic efficiency of the plant is measurable.

The approved and constantly developed FINEAMIN® technology is an alternative to conventional chemical treatment products and dosing chemicals. They are effective, cost saving and environment friendly.

Our products are optimal in different composites adjusted to particular application. It does not matter if it is a salted, low-salt or salt free operation mode.

This provides clean, corrosion-free and deposit-free plants and systems in the following areas:

- District heating systems
- Boiler systems
- Heating systems
- Hot water circulations

For the water treatment of boiler systems we offer following products:

- Corrosion and fouling inhibitor
- Oxygen scavenger to avoid oxygen corrosion
- Antiscalent for cleaning and avoiding iron oxide and hardness deposits
- Alkalizing medium for pH-value cleaning

Our customer know our long time experience in the area of water treatment and appreciate the individual consulting and extensive service.

Prevention instead of after treatment

The effect of FINEAMIN® is based on a preventive protection of affected surfaces. In contrast to the conventional methods which are based on after treatment of purified water.

Polyamines and polyacrylate which are dispersing, cleaning and alkalizing eliminate and prevent effective deposits and corrosion and improve the heat transfer.

FINEAMIN® disperses existing oxide layers and deposits and removes them gently. Through the affinity of FINEAMIN® a metal surface is prohibit, that new deposits cannot be build up. The surface active substances form a inhibit protection layer on the internal walls of the heating system and pipe system. This avoids corrosion.



What can FINEAMIN® do better than conventional chemical treatment products?

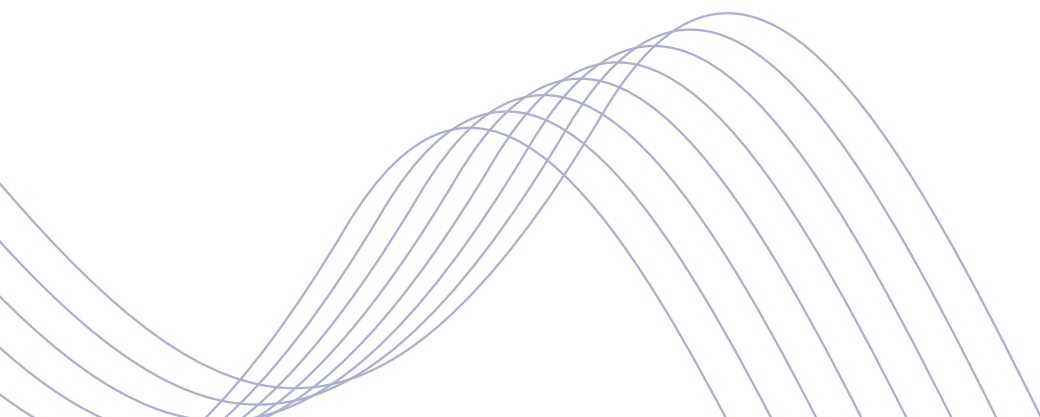


FINEAMIN® is effective and sustainable

- FINEAMIN® defends boiler systems effective and lasting from deposits and corrosion
- FINEAMIN® does not raise the salt content in the system
- Clean steam generator, boiler systems, district heating systems and heating systems are more effective and consume less valuable resources
- FINEAMIN® increases the reliability and durability of the facility
- No corrosion means less maintenance

FINEAMIN® saves costs

- Through salt free products the circulating water is not additionally loaded, which minimizes the risk of corrosion in district heating systems and boiler systems.
- A facility which is not polluted and corroded is highest-performance and last longer – maintenance and repair costs increase.
- Less labor input means lower labor costs
- Only low required quantity is needed
- We deliver the products in returnable drums and take the empty ones back.
This means for you: no effort, no storage costs and no disposal



What can FINEAMIN[®] do better than conventional chemical treatment products?

FINEAMIN[®] protects the environment

- FINEAMIN[®] does not consist of polluting chemicals
- FINEAMIN[®] is toxicological and ecological harmless
- FINEAMIN[®] is up to 82% bio-degradable and can be lead in the sewerage without problems
- FINEAMIN[®] is certified by the hygiene institution DIN EN 1988 and DIN EN 1717:2000 and is authorized for heating tap water in district heating tap water in district heating and heating systems
- FINEAMIN[®] saves valuable recourses like water and energy
- The low dosing quantity minimizes the chemical usage, reduces sewerage quantity and protects the environment



FINEAMIN[®] is easy to handle and safe

- The product is delivered as necessary, already blended
- The treatment is easy and uncomplicated
- No special storage and dosing instructions are required
- The application does not need complex analysis methods
- FINEAMIN[®] is not unhealthy
- FINEAMIN[®] is produced and controlled by regulations and controls of the EU. The production according to the ISO-norm guaranties a consistent quality and quantity of the product as well as a save integration into the production processes.

Efficient performance and high lasting of your facility with FINEAMIN®

Prevention of corrosion in a boiler through change to FINEAMIN®



Conventional chemical treatment

Gentle remove of deposits of boiler scale through the application of FINEAMIN®



Before



Chemical treatment with FINEAMIN®



After 3 months with FINEAMIN®

Advantages of FINEAMIN® at a glance:

- Increases the reliability and durability of the facility
- Optimization and increase of capability
- Decreases the costs of maintenance and operation
- Reliable protection against corrosion and deposits
- Application of environment friendly technologies

Customer service: custom-made, personal at the face and from one



Each district heating system is different. Therefore we would like to get an idea of the local situation and talk with our customers before we advise a product.

- We offer a complex consulting and supervision in the areas of internal water treatment and water treatment
- According to requirements we analyze the water at the face in our portable labor
- We check the water treatment and dosing technique and analyze deposits in the labor
- We discuss all relevant technical parameter with the customer and adjust it to our products
- We deliberate detailed on a matter of application, dosing and detection of FINEAMIN®
- We develop economic efficiency calculation by the change from conventional chemical treatment products to FINEAMIN®
- We check and keep record of the plant condition (e.g. during boiler opening) before and after the treatment with FINEAMIN®
- We train local staff
- We retrieve the empty drums

References

et al. refinery, petro chemistry, heating plant, wood/timber/lumber industry, steel industry, paper industry, chemical industry, printing plant, pharmacy, food industry, building services, air conditioning technology

Product example: FINEAMIN 06, 19, 12, 18



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