

# ***FINEAMIN HELAWAX®***

*The FINEST way of water treatment!*



**Waste Water**



# FINEAMIN HELAWAX® – the clean solution for sewerage systems and scrubbing of flue gases

The emerging flue and waste water in the industry and energy production process have to be cleaned according to the environmental regulations. The therefore used cleaning processes have to meet high ecological and economical claims. Our special FINEAMIN HELAWAX® technology helps the operation of clarifications, flue scrubber gases and waste water treatment plant. It also keeps the system clean and consequently maximizes the efficiency. Furthermore we offer alternative special-chemiclas for heavy metal precipitation.

With more than 20 years of experiences in the application of corrosion and fouling inhibitors in water and waste water systems gives us the know-how to be a competent partner to answer all your questions concerning your flue gas scrubber and clarification plants.

With our HELAWAX products we offer our customers a practice oriented, economical and ecological solution for the following areas:

- Sewerage/ waste water treatment
- Flue gas scrubber
- Heavy metal precipitation

For the waste water treatment we offer the following products:

- Corrosion and fouling inhibitor
- Inhibitor to avoid chalk, cement and magnesium deposits in the waste water
- Specialty chemicals to avoid MAP- deposits (Magnesium-Ammonium-Phosphate)
- Products for heavy metal precipitation and immobilization



# Prevention instead of after treatment with HELAWAX HUM®

This product is used to eliminate and prevent chalk and hard plaster deposits in the water systems and waste water systems.

If carbon crystal or calcium sulfate is accumulating FINEAMIN HELAWAX HUM® gets active and blocks the point of origin. The calcium salts are put in to supersaturated solution without precipitation. Furthermore FINEAMIN HELAWAX HUM® is an effective dispersant. Existing calcium deposits can be gently remove during the process out of the system.

FINEAMIN HELAWAX HUM® adapts the formation of passive layers on the common metals like steel, copper, aluminum and zinc- this provokes an effective corrosion protection.

## **FINEAMIN HELAWAX® is effective and sustainable**

- FINEAMIN HELAWAX® defends water and sewerage systems effective and lasting from deposits and corrosion
- Clean flue gas scrubber and sewage treatment plants are more effective and consume less valuable resources
- FINEAMIN HELAWAX® increases the reliability and durability of the facility
- No corrosion means less maintenance
- Reliable heavy metal precipitation abundance by low required waste water quality

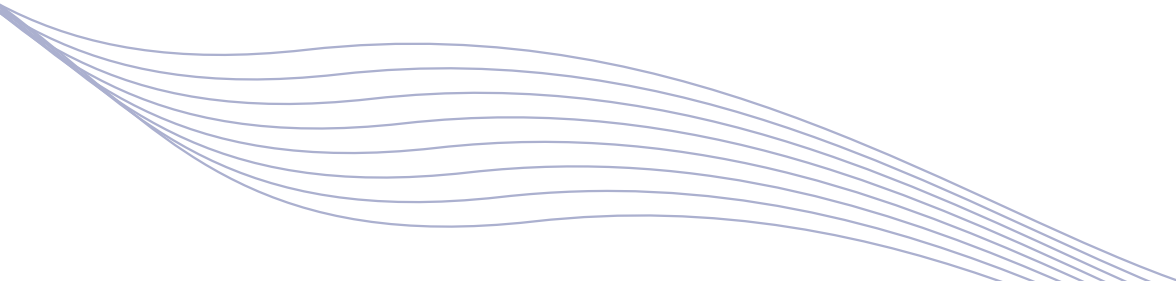
## **Avoidance of deposits in a flue gas scrubber (Ringjet) through dosing with HELAWAX HUM®**



Flue gas scrubber before the treatment with FINEAMIN HELAWAX®



Flue gas scrubber after the treatment with FINEAMIN HELAWAX®



# FINEAMIN HELAWAX® works with environment friendly technologies

## FINEAMIN HELAWAX® saves costs

- A facility which is not polluted and corroded is highly productive and last longer – maintenance and repair costs decrease
- Less cleaning effort means lower labor costs
- Only low required quantity is needed
- We deliver the products in returnable containers and take the empty ones back.  
This means for you: no effort, no storage costs and no disposal

## FINEAMIN HELAWAX® protects the environment

- FINEAMIN HELAWAX® does not consist of polluting chemicals
- FINEAMIN HELAWAX® is toxicological and ecological harmless
- FINEAMIN HELAWAX® can be lead in the sewerage without problems
- FINEAMIN HELAWAX® saves valuable resources like water and energy
- The low dosing quantity minimizes the chemical usage, reduces sewerage quantity and protects the environment

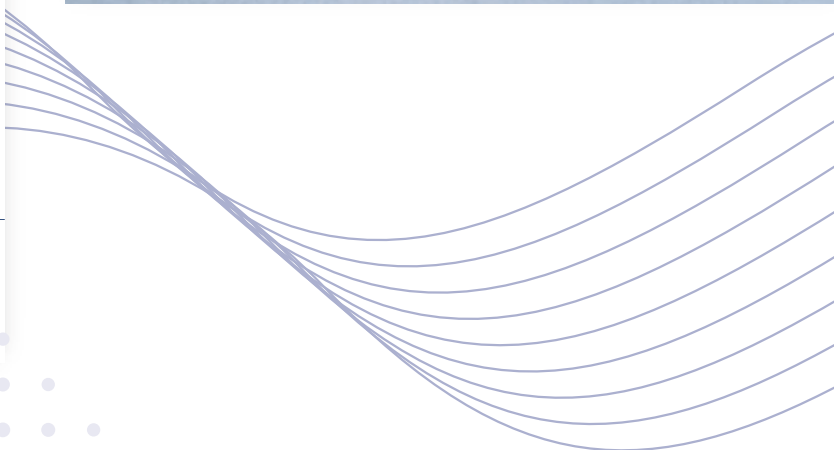
## FINEAMIN HELAWAX® is easy to handle and safe

- 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 HELAWAX® is not unhealthy
- FINEAMIN HELAWAX® is produced and controlled by regulations and controls of the EU. The production according to the ISO-norm guarantees a consistent quality and quantity of the product as well as a safe integration into the production processes.

### Comparison of heavy metal precipitation with HELAWAX W® in a sewerage treatment plant

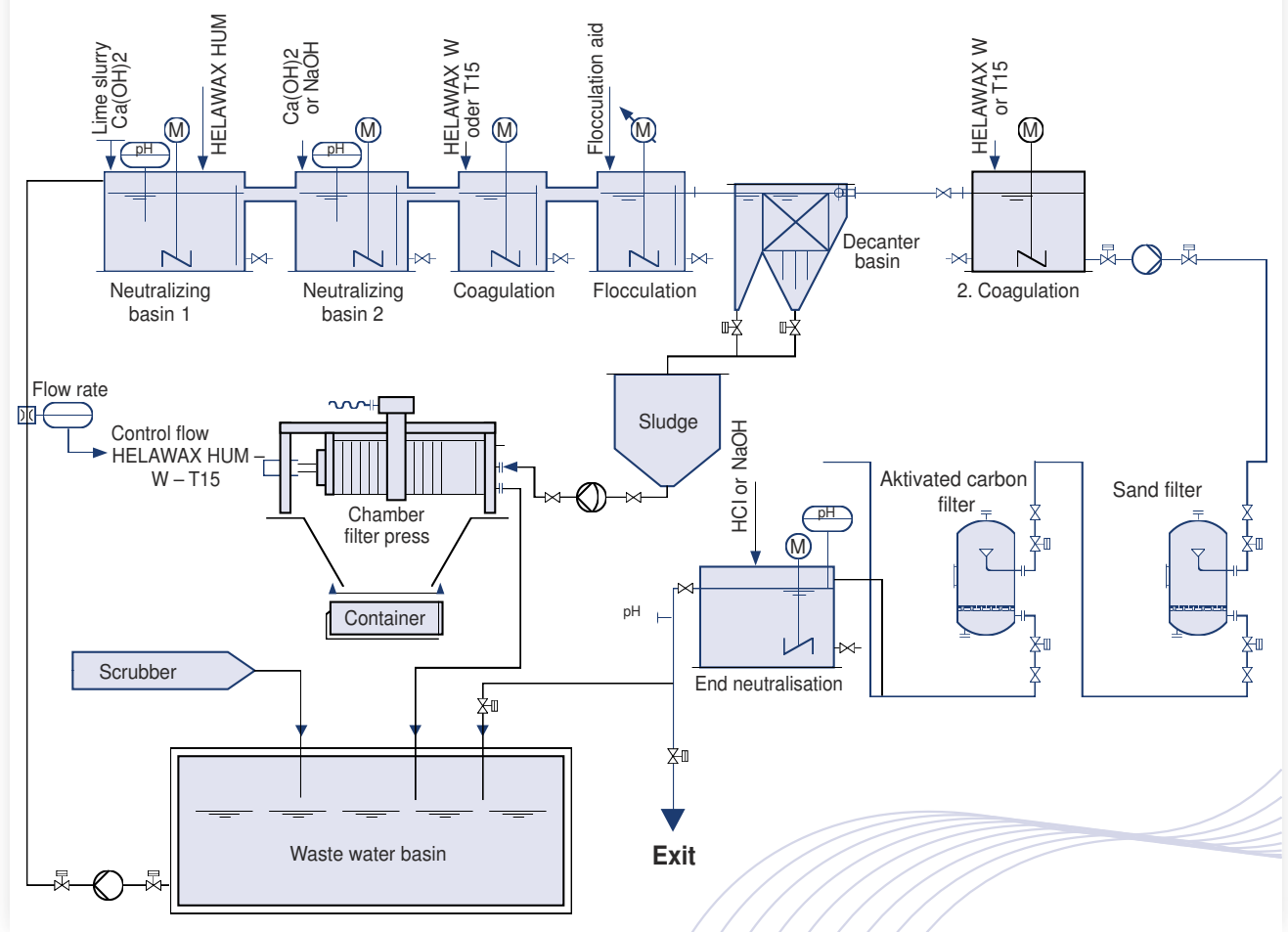
Product	TMT 15	HELAWAX W®
Required quantity ppm	120	120
Result of treatment ppm		
Lead	0.14	0.14
Zinc	0.16	0.06
Cadmium	0.14	0,03

The treatment with FINEAMIN HELAWAX W® improved the quality of the waste water.



# FINEAMIN HELAWAX<sup>®</sup> in industry and power plants

Example of a facility with the input of HELAWAX W<sup>®</sup> and HELAWAX HUM<sup>®</sup> in the waste water treatment



## Advantages of FINEAMIN HELAWAX<sup>®</sup> at a glance:

- Increases the reliability and durability of the facility
- Optimazation and increase of capability
- Decreasing the costs of maintenance and operation
- Reliable protection against corrosion and deposits
- Application of environment friendly technologies
- Improvment of the waste water quality
- Less downtime

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



Each waste water system and scrubbing of flue gases 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 HELAWAX®
- We check and keep record of the plant condition (e.g. during boiler opening) before and after the treatment with FINEAMIN HELAWAX®
- We train local staff
- We retrieve empty drums

## References

et al. waste incinerating plant, coal-burning power plant, clarification plant, chemical industry, metal processing

Product example: HELAWAX HUM, HELAWAX W



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