



- **Fats, oils and greases (FOG) control**

Heavy build-up of FOG layers in the network causing frequent fatbergs blockages?

Significant FOG build-up in sewer pump stations requiring increased cleaning?

Frequent need for vacuum truck cleaning leading to an increase in maintenance costs?



With a higher neutralising value per dry kilo when compared with caustic and lime, ACTI-Mag raises the pH of the waste stream and allows bacterial breakdown of organic matter and saponification of FOGs.



Fatbergs prevention



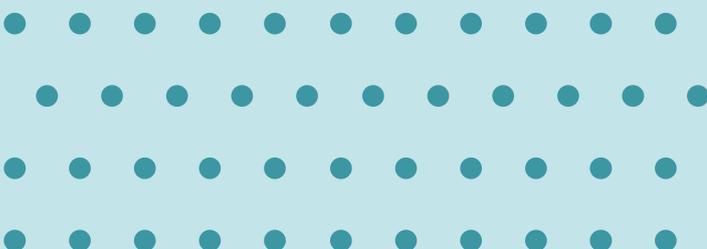
Reduce vacuum truck cleaning



Removal of FOG

pH

Better pH management to prevent spikes at treatment plants during FOG treatment





WHY ARE FOGs AN ISSUE?

Higher concentration of FOGs can lead to the formation of fatbergs, scumming, pump blockages, pipe restriction, pipe blockage plus the formation of odour related issues like hydrogen sulfide gas (H₂S). But these issues can also end up interfering with the sewage treatment processes at Wastewater Treatment Plants (WWTPs).

WHAT HAPPENS TO THE FOGs WHEN USING ACTI-Mag

ACTI-Mag is a concentrated stabilised suspension of magnesium hydroxide, an inorganic compound with the chemical formula Mg(OH)₂.

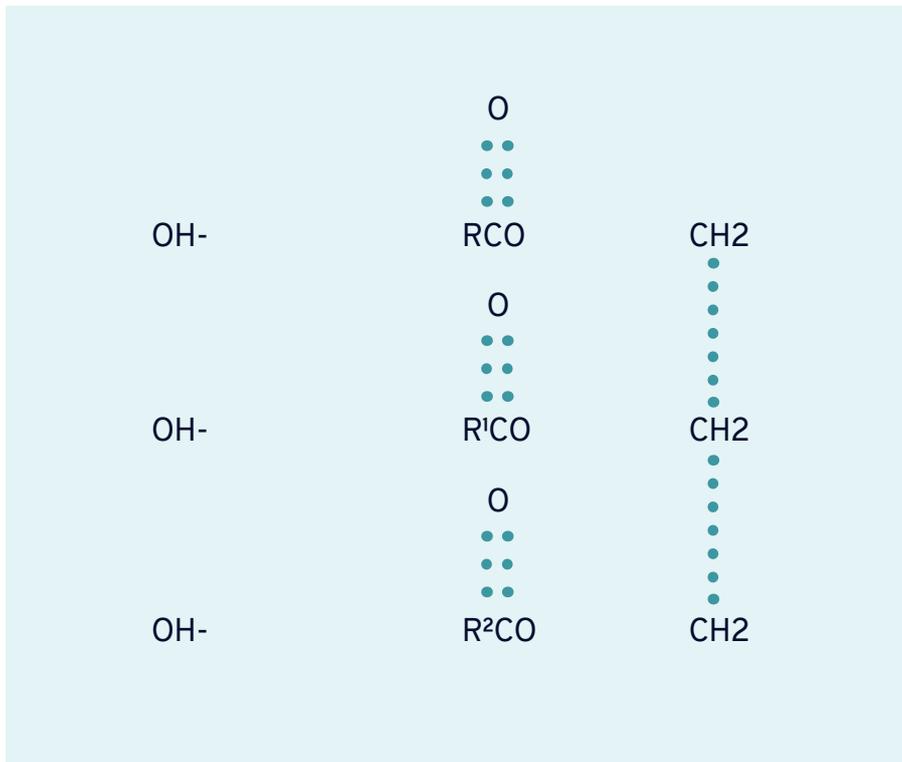
ACTI-Mag slowly releases hydroxyl ions, which breakdown low-density, large-chain fatty acids into glycerol and various types of soap, both of which are more readily digested by bacteria in wastewater.

Wastewater has large quantities of low-density, long-chain fatty acids.

The carboxylate salts that are O-produced further facilitate the breakdown of other fats.

Tg hydroxyl ions carboxylate salts
- soap fatty acid glycerol

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WHY CHOOSE CALIX

FASTER REACTIVITY = COST SAVINGS

New materials produced by Calix's technology are proving to have similar properties to highly active nano-materials, without the safety concerns and high cost, but with all the benefits. This means it has the high reactivity of nano-material, without the potential health and handling issues. To learn more about Calix's technology, visit our website.

FROM MINE TO CUSTOMER

Calix is able to offer better service, reliability and performance to its customers because it controls the entire production process from mining of raw materials, processing and production.

ACTI-Mag lowers chemical consumption and ensures easier use, handling and storage, thus considerably reducing costs.

ACTI-Mag also offers the following benefits:

- Phosphate removal
- Biogas management
- Odour control cleansing the sewer
- Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) reduction

Read our other solution spec sheets or call us today to discuss the benefits of a whole-of-catchment approach.

Distribution partners

Calix has established a network of local distributors and partners who can deliver our solutions across the globe, to ensure you receive excellent customer service and support, wherever you are located.

To find a Calix office or partner near you, visit:

WWW.CALIX.GLOBAL

