

# **ALCHAGEL**

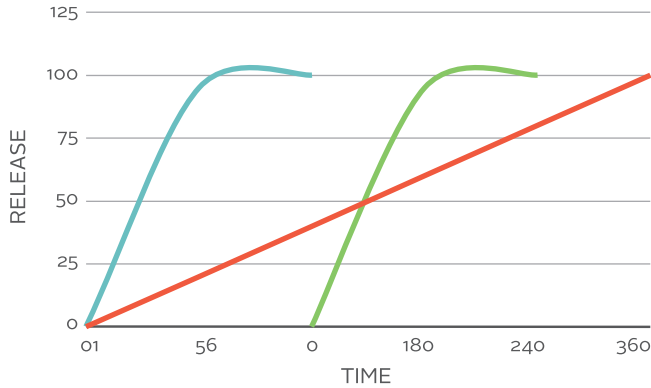
Granulated alkalizing  
**slow release**





# ALCHAGEL

## Influence of physical form on bio-availability of nutrients

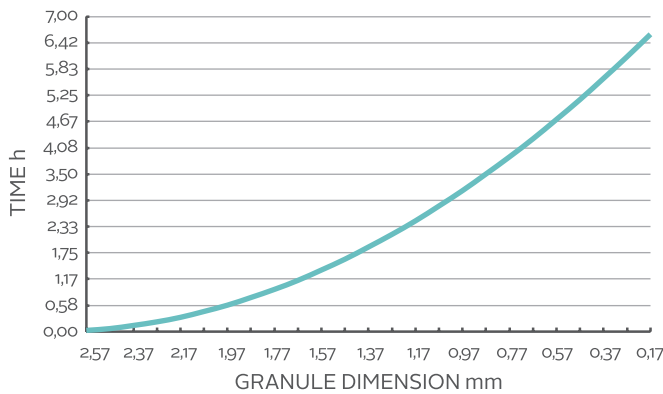


- Snap diffusion
- Limited lifetime
- Boluses do not use biodegradable polymers
- Burst effect
- Breaking or cracking of the system implies a massive diffusion of active ingredients. (chewing, abrasion, cut)
- Constant release speed
- Control of release overtime

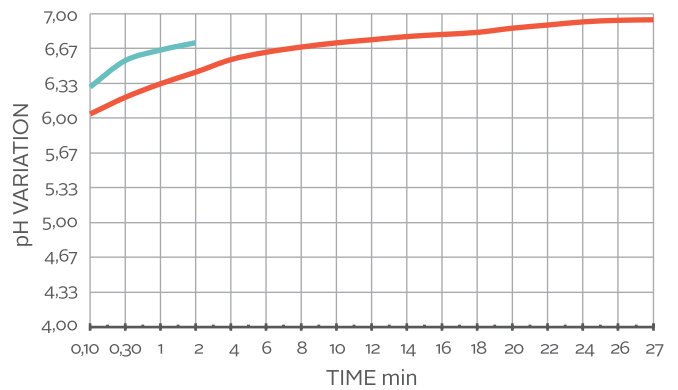
— fast release: product in powder  
 — delayed release: bolus - by pass  
 — slow release: Steecker

## Time of erosion of the 100% granules Steecker® Alcha Gel in water at pH 6.2

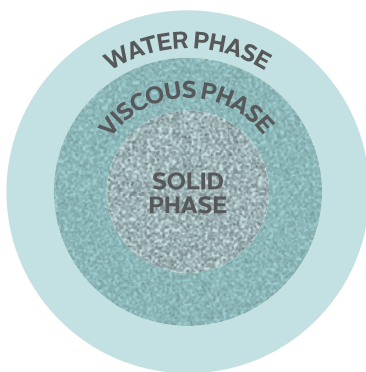
Steecker® Alcha Gel



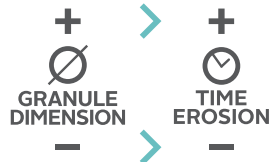
Steecker® Alcha Gel versus Bicarbonate Na (initial solution pH 5.9)



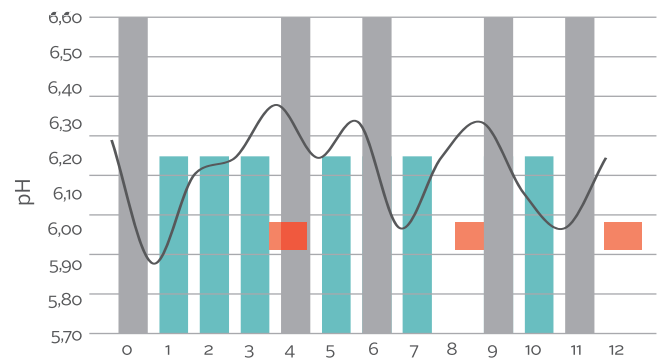
## Slow release



The solvent penetrates the granule. A gel layer forms, more viscous in the inner part and more fluid in the outer one. The active principles move to the gel layer and are released.



## Feed intake rate and pH



The presence of a long acting buffer produces an effect similar to 1 extra hour of rumination per day.

Better flowability and manageability	Less humidity absorption	Single specific gravity	Uniform granule size	Less skin contact	Less electrostatic charge	Lack of suspended powders