



## Your Winning Formula

The Perstorp Group is the world leader in several sectors of the specialty chemicals market. Few chemical companies in the world can rival its 130 years of success. Today we have a rich performance culture distilled from our long history and extensive knowledge in the chemical industry. That culture and knowledge base enables us to produce Winning Formulas for a wide variety of industries and applications.

Our products are used in the aerospace, marine, coatings, chemicals, plastics, engineering and construction industries. They can also be found in automotive, agricultural feed, food, packaging, textile, paper and electronics applications.

Our production plants are strategically located in Europe, North America and Asia and are supplemented by sales offices in all major markets. We can offer you fast regional support and a flexible attitude to suit your business needs.

If you want a partner for feed additives who can offer you focused innovation to enhance your product or application, which is delivered reliably and responsibly, look no further. We have a winning formula waiting for you.

### Silage additive that gives key benefits

- ➔ Is effective against unwanted microorganisms
- ➔ Minimizes dry matter losses during the ensiling process
- ➔ Preserves high nutritional value
- ➔ No ADR restrictions, classified as non-corrosive (NC)
- ➔ Prevents heating during feeding

# Improve and secure your feed

## ProMyr™ Silage – for high palatability

Ensiling is a method for preserving nutrients in feed crops. The combination of a low pH and an anaerobic environment prevents unwanted microorganisms from growing, consuming nutrients in the silage, and producing unwanted fermentation products some of which are dangerous for the animals. ProMyr™ Silage speeds the pH decrease during the ensiling process, resulting in excellent silage quality with a high sugar content, low ammonia levels, and low levels of unwanted fermentation products and spores. ProMyr™ Silage also creates silage with good resistance against heating after opening the silo and during feeding. A silage treated with ProMyr™ Silage has very low ammonia content, which has a positive effect on the palatability. A silage with high palatability increases the feed consumption.

## What is ProMyr™ Silage?

ProMyr™ Silage consists of a blend of propionic

acid and sodium formate, which is a salt of formic acid. ProMyr™ Silage is a concentrated non corrosive product. ProMyr™ Silage does not have to be stored in insulated conditions.

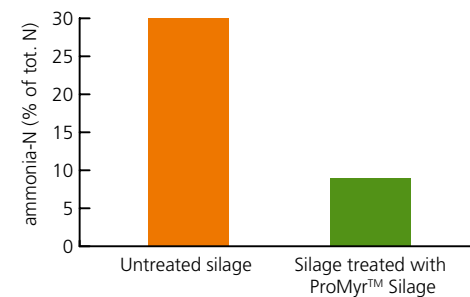
## How does ProMyr™ Silage work?

Sodium formate has a similar function to formic acid. Formic acid is a well-known inhibitor of unwanted microorganisms during ensiling. Sodium formate gradually releases formic acid throughout the ensiling process. In addition to microbial lactic acid fermentation, the released formic acid speeds the pH decrease and creates an environment that among all bacteria only promotes lactic acid bacteria.

Another benefit of ProMyr™ Silage is excellent preservation of dry matter and easily digested nutrients in the silage. A fast decrease in pH results in a high protein availability for the animals. This by denaturation of the plant enzymes which otherwise would degrade the protein to ammonia.

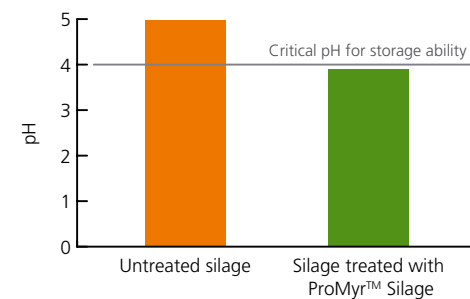


## Ammonia content in grass/clover-silage (FC 37)



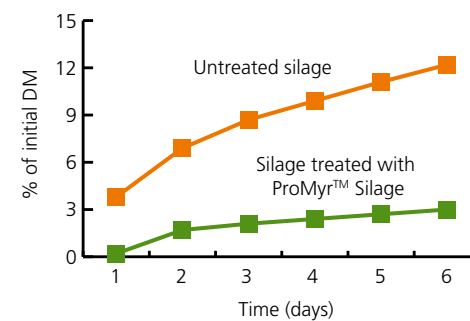
Stress test at the Swedish University of Agricultural Sciences 2010

## pH in grass/clover-silage (FC 37)



Test at the Swedish University of Agricultural Sciences 2010

## Dry matter losses in grass/clover-silage (FC 37)



Test at the Swedish University of Agricultural Sciences 2010

Propionic acid is a well-known yeast inhibitor. When propionic acid hits the cell membrane of yeast and enters the yeast cells, the cell membrane function is disturbed and intracellular pH decreases, killing the cells. The propionic acid in ProMyr™ Silage is especially important for silage with high dry matter and sugar content. Propionic acid is also the active component to prevent microbial activity and heating after the silo is opened and during feeding.

Experiments performed at the Swedish University of Agricultural Sciences have shown that aerobic stability in silage with a high dry matter content increased by several days when ProMyr™ Silage was added.

## Application

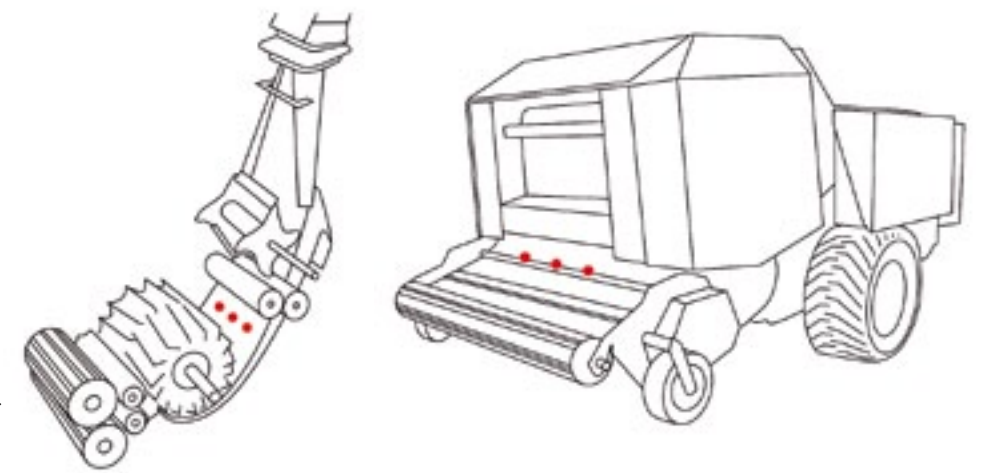
ProMyr™ Silage is suitable for all kinds of silo systems. A pump approved for acids is recommended. The pump must be equipped with a control unit to regulate the dose. A flow meter on the control unit will show the actual flow of ProMyr™ Silage when the dose is changed.

When ensiling in tower silos, bunker silos, or tubes, ProMyr™ Silage is easily applied in the grass-chopper. The best way to apply ProMyr™ Silage is to add it to the pick up or after the accelerator. Avoidance of losses must be considered with assembling the nozzles. An even distribution of ProMyr™ Silage is required for an optimal effect.

## Recommended DM content for different silage systems

Tower silo	<50% – lower DM content in the top
Bales DM	DM <60 %
Bunker silo	DM <35 %

## For silage



● Placement of the nozzles