

**The Silage Inoculant Revolution Continues:**



**The Specialist for  
Grass Silage!**

**The Original:**  
Unlocks Nutrients.  
Releases Energy.



**PIONEER®**  
A DUPONT COMPANY

# Unique Mode of Action: For Your best Grass Silage of the

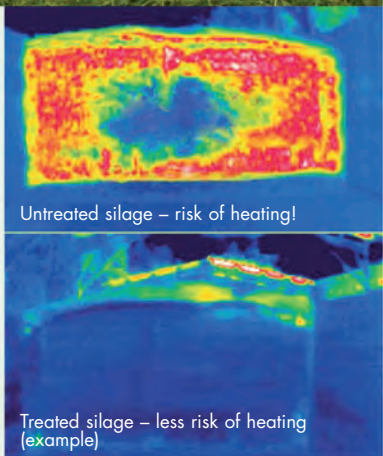


More energy, higher feed intake and improved aerobic stability!



### Increases management flexibility when ensiling grass:

Improvements in the cell wall digestibility of grass silage generate significant benefits for farmers, and not just in situations where delayed cutting due to unfavourable weather conditions causes a deterioration in fibre quality. PIONEER® 11GFT ensures that farmers have more flexibility than ever when making their grass silage. Choose PIONEER® 11GFT and enjoy the benefit of this flexibility on your farm.



Untreated silage – risk of heating!

Treated silage – less risk of heating (example)

# Season!

# 11GFT

## Unique Mode of Action: Unlocks Nutrients. Releases Energy.



**Stage 1** – The unique strain of *Lactobacillus buchneri* bacteria in PIONEER® 11GFT is unlike those currently available in other silage additives. The *Lactobacillus buchneri* LN40177 bacteria release enzymes, including ferulate esterase enzymes (picture 1), that are able to decouple the lignified bondings that hold together the fibre components of the cell wall (picture 2), thereby significantly increasing cell wall digestibility.

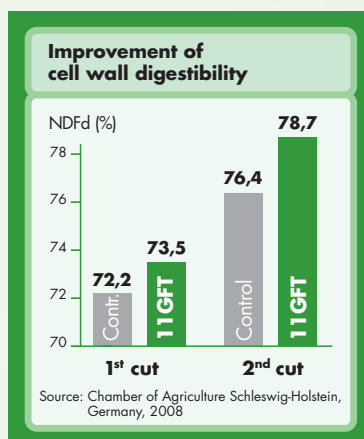
**Stage 2** – The “pre-digested” fibre components are then degraded by rumen microorganisms (picture 3). Lignification, a protective process of plant fibre, can therefore be circumvented. Nature’s potential can be accessed more efficiently, and silage utilisation is significantly enhanced.

## Reduced secondary fermentation, improved preservation: PIONEER® 11GFT

PIONEER® 11GFT is the specialist additive for grass silage that contains additional bacteria specially selected for grass silage. They preserve silage quality by creating a rapid and steep drop in pH.

Lignification can be circumvented and aerobic stability is improved – as well as the fermentation acid profile.

This leads to increased feed intake and also improved energy density!



- Improved cell wall digestibility!**  
Increased feed intake and more milk from roughage feed.
- Preservation success is secured!\***  
Controlled release of acetic acid without increased fermentation losses.
- Drop in pH!**  
Fast fermentation leading to improved acid profile.
- Improved aerobic stability!\***  
Lower dry matter losses due to heating.

\* In all situations it is assumed the grass being ensiled is at least 20 % dry matter, free from soil contamination, surplus nitrogen and has adequate sugar levels to complete the fermentation - when considered in terms of its dry matter percentage.



"This is the first year of using 11GFT grass silage additive and I am really pleased with the overall fermentation quality. I try to make high dry matter grass silage and a competitor product has always struggled to stop secondary fermentation. 11GFT has kept the face cool this year which has helped raise intakes and overall herd performance."

Mr Paul Gould, Townsend Farm, West Stour, Gillingham, Dorset, SP8 5RP



"The grass silage is very palatable giving us excellent silage intakes. Milk yields have increased, all the silage is cleaned up so there is absolutely no waste or heating at feed out or in the clamp."

Mr Graham Hinks, Lower Nyland Farm, Nyland, Gillingham, Dorset



"11GFT has stopped secondary fermentation on my wide outside grass silage pit. Intakes are higher and the cows are currently averaging 31 litres / cow / day, nearly 3 litres up on last year. Nothing else has significantly changed diet wise to explain this rise in performance."

Mr Harold George, Coppid Hall Farm, Main Rd, Havenstreet, Ryde, Isle of Wight



"This is the second year of using PIONEER® 11GFT. Last year we were very impressed by the additive which gave us much improved milk from forage yields. This was down to higher silage intakes, much improved over previous years, which gave improved milk yields with no other change in the feeding regime. This year we are seeing the same results with very good silage intakes, the silage is very stable in the clamp and also after feeding. The silage is always completely eaten so we do not have any waste."

Mr Phillip Cotterrell of S.J. Stevens & Son, Warren Farm, Maesbury, Wells, Somerset

## Experience the benefits of PIONEER® 11GFT on your farm this year

Many farmers, who have sought an additive that improves silage quality, have now used this new inoculant because it has been shown to have greater efficacy due to its innovative mode of action. Try it yourself as well and make use of the decisive difference: Ferulate esterases – released by the unique bacterium *Lactobacillus buchneri* LN40177.



### PIONEER® 11GFT: The specialist for Grass Silage:

- Unique mode of action to increase cell wall digestibility
- Rapid and steep drop in pH
- Higher feed intake
- More milk from roughage feed
- Less heating



### PIONEER® 11CFT: The specialist for Maize Silage:

- Unique mode of action to increase cell wall digestibility
- Higher feed intake
- More milk from roughage feed
- Less heating



### PIONEER® 11CH4: The specialist for Biogas Plants:

- Unique mode of action to increase cell wall digestibility
- Less heating
- Faster and higher methane production

Available for maize harvest 2009!



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