PIONEER® BRAND

# 11CFT CORN FIBRE TECHNOLOGY

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## Pioneer® brand 11CFT is a revolutionary patented corn silage product designed to:

- Improve fibre digestibility
- Enable higher corn silage inclusion rates

Available as a water-soluble product in packaging suitable for use in tank mixes or with the Pioneer Appli-Pro® systems for easy and convenient application.

**11CFT** contains a novel strain of *Lactobacillus buchneri* which:

- Produces specific fibre-digesting enzymes as it replicates in silage
- Reduces shrink and improves aerobic stability of the silage face during feedout

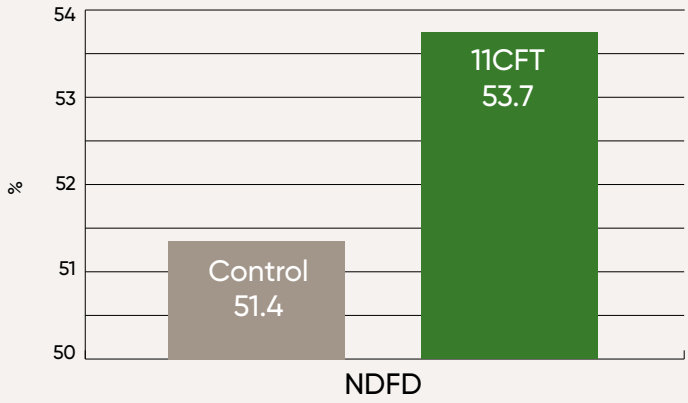
In addition to fibre-digesting enzyme production, **11CFT** contains a unique silage strain of *Lactobacillus plantarum* formulated to:

- Stimulate "front-end" fermentation efficiency by rapidly dropping pH, helping to retain valuable nutrients (sugar, starch)
- Establishes the ideal environment for growth and proliferation of the enzyme-producing *L. buchneri* allowing enzymatic activity to be expressed, "pre-digesting" NDF and making it more available to the rumen microbes
- **Help lower feed costs by reducing need for bypass protein supplementation**
- Excellent choice for high-production animals fed high levels of corn silage

| Available in Package Sizes:   TBC | |
|---|---|
| X | **Improves fermentation and reduces dry matter loss** |
| X | **Improves nutrient preservation** |
| X | **Significantly reduces heating at the silage face** |
| X | **Helps reduce heating in entire Total Mix Ration (TMR)** |
| X | **Improves fibre digestibility** |

IMPORTANT: Information and ratings are based on relative comparisons with other Pioneer® brand inoculants within each specific crop, not competitive products. Information and ratings are assigned by Pioneer Forage Additive Research, based on average performance across area of use under normal conditions, over a wide range of both environment and management conditions, and may not predict future results. Product responses are variable and subject to any number of environmental and management conditions. Please use this information as only part of your product positioning decision. Contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer® brand product. Fermentation – rate and extent of pH decline and the composition of fermentation acids occurring in silage. Aerobic Stability – relative heat development compared to ambient temperature. Aerobic Stability considers both how quickly silage begins to heat and the amount of heat generated while remaining above ambient temperature. Fibre Digestibility – the digestibility of neutral detergent fibre (NDF) by the ruminant animal expressed as a percentage of the total NDF.

### Research shows 11CFT is effective in improving NDF digestibility:




### Improving aerobic stability resulting in less heating

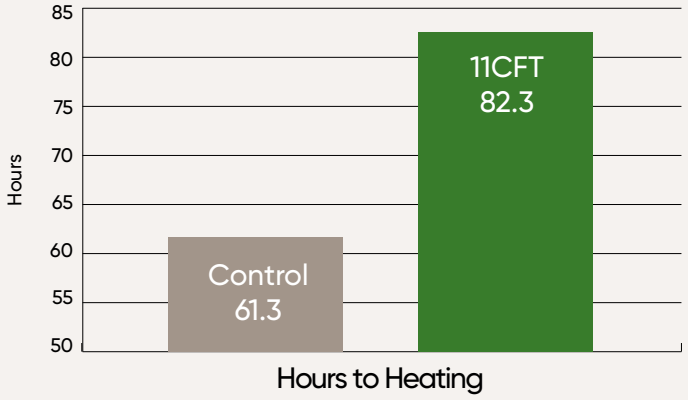



**Chart 1: Source:** University of Florida and the Lethbridge Research Center summarised third party in situ NDFD across four different hybrids.

**Chart 2: Source:** Pioneer Livestock Nutrition Center, Iowa.

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# Pioneer® Brand Inoculants

Pioneer proprietary silage inoculants continue to provide those striving to make high quality silage with unique products that reduce silage dry matter losses and improve silage quality.

| Mode of Actions | Product | Forage | Purpose |
|---|---|---|---|
| Unique Fibre Technology | **11GFT** | Grass and wholecrop cereal silages | Fermentation, animal performance and fibre digestibility, aerobic stability |
| | **11CFT** | Maize silage | Fermentation, animal performance and fibre digestibility, aerobic stability |
| | **11AFT** | Lucerne silage | Fermentation, animal performance and fibre digestibility, aerobic stability |
| | **11CH4** | A wide range of high dry matter silages | Aerobic stability and gas production |
| Traditional Technology with Rapid React | PIONEER® **11G22** RAPID REACT® AEROBIC STABILITY | High dry matter grass, wholecrop cereal and pea/cereal silages | Fermentation, animal performance and aerobic stability |
| | PIONEER® **11C33** RAPID REACT® AEROBIC STABILITY | Maize silage | Fermentation, animal performance and aerobic stability |
| | PIONEER® **11B91** RAPID REACT® AEROBIC STABILITY | Crimped maize grain | Fermentation, animal performance and aerobic stability |
| | PIONEER® **1188** | Grass silage below 30% dry matter | Fermentation and animal performance |
| | PIONEER® **11A44** | A wide range of high dry matter silages | Aerobic stability |