Pioneer® brand 11G22 is an alfalfa/grass/cereal silage inoculant with next-generation L. buchneri designed to:

- Enhance fermentation in grass and whole plant cereal silage and deliver improved fermentation and a fermentation acid profile that minimizes aerobic dry matter losses
- Be used in grass and whole plant cereals ensiled at the proper maturity in upright, bunker or bag silos and at a dry matter between 30% and 42%

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

11G22 contains a unique blend of patented and/or proprietary strains of Lactobacillus buchneri and Lactobacillus plantarum formulated to:

- Improve silage quality providing low terminal pH and desirable VFA profile for decreased fermentation loss and enhanced aerobic stability
- Improve animal performance

Includes Rapid React® aerobic stability technology. This provides improved bunklife and stable feed in 7 days.*

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. Refer to www.pioneer.com/inoculants or contact a Pioneer sales professional for the latest and most complete listing of traits and scores for each Pioneer® brand product.

### pH and Aerobic Stability Trials

<table>
<thead>
<tr>
<th>Item</th>
<th>Control</th>
<th>11G22</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM, %</td>
<td>39.55</td>
<td>40.03</td>
</tr>
<tr>
<td>pH</td>
<td>4.83</td>
<td>4.86</td>
</tr>
<tr>
<td>DM recovery, %</td>
<td>89.51&lt;sup&gt;a&lt;/sup&gt;</td>
<td>92.84&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>Aerobic stability, hours</td>
<td>25.50&lt;sup&gt;a&lt;/sup&gt;</td>
<td>116.25&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>Aerobic DM loss, %</td>
<td>4.37%&lt;sup&gt;b&lt;/sup&gt;</td>
<td>1.07%&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

Source: Pioneer Livestock Nutrition Center, Iowa. Dry matter recovery, aerobic stability, and nutrient composition were determined for uninoculated (Control) grass silage and for grass silage inoculated with Pioneer® inoculant 11G22 Grass/Cereal Silage Inoculant (11G22).

<sup>a</sup> All values are expressed as least squares means
<sup>b</sup> Dry matter loss as measured during the aerobic stability test.

### Shrink Loss in Grass Silage

11G22 also reduces shrink losses during feed out

### Grass Silage Effects on Bunklife When Subjected to Air

11G22 remains cool for much longer when exposed to air

*Disclosure: Improved aerobic stability and reduced heating is relative to untreated silage. Actual results may vary. The effect of any silage inoculant is dependent upon management at harvest, storage and feedout. Factors such as moisture, maturity, chop length and compaction will determine inoculant efficacy.

Pioneer® brand products are provided subject to the terms and conditions of purchase which are part of the labeling and purchase documents.