

teno spin[®]

The value of silage



How to improve the profit in baled silage with premium bale wrap

In many areas of agriculture, especially in milk and meat production, silage is the basic feed. Compared to other alternatives, silage is a cost-effective feed. For this efficiency, however, the nutritional value of the silage is of great importance in the value chain in order to run a business economically.

Silage quality tested products

Since the 1990s we have developed and tested products in cooperation with SLU (Swedish University of Agricultural Sciences). The cooperation has led to new products that increase the efficiency and silage quality in baled silage. After these years of continuous development of our recipes and production processes we are now on top level of performance, which the tests confirm.

Study of silage quality with Tenospin und Tenospin plus

SLU has performed a study where Tenospin (25µ) and Tenospin plus (21 µ & 19 µ) was evaluated regarding silage quality and losses in round bales (more details concerning the test can be viewed in our flyer "Thickness vs. layers"). In the study it was confirmed that Tenospin and Tenospin plus give high airtightness, great silage quality and low DM-losses. DM-losses were down to 1 % which is very low compared to earlier independent market studies. Compared

with the market standard which is assumed to be between 3 % to 5 % you get a greater output with Tenospin and/or Tenospin plus products. To exemplify what these low losses mean in the end, we have done some calculations for different cases in the following.

Case 1 is based on test results from SLU with Tenospin and Tenospin plus products. Case 2 & 3 are setup as market reference with expected DM-losses of 3% resp. 5%.



Parameters/benefits	Case 1 – Tenospin / Tenospin plus	Case 2 – 3% DM-losses	Case 3 – 5% DM-losses
DM-losses (%)	1,3	3,0	5,0
Bale weight kg	670,0	670,0	670,0
DM-level (%)	41,4	41,4	41,4
DM-losses kg	3,6	8,3	13,9
Difference kg DM	Reference	-4,7	-10,3
Value silage DM/bale EUR	Reference	-0,9	-2,1
Value silage DM/reel 6 layers EUR	Reference	-19,6	-42,8
Value silage DM/reel 8 layers EUR	Reference	-14,7	-32,0

Table 1

As table 1 explains, you can for example see that 1% in DM-losses compared to 3% or 5% are equal to savings of 0,9 EUR respectively 2,10 EUR per bale of silage. A calculation based on

a 1500 meter reel of bale wrap, when applying 6 layers of film, ends up in a saving of 19,60 EUR respectively 42,80 EUR per reel.

Another way of looking at this, is to calculate the impact on the milk output. Table 2 below calculates with DM-losses in above study and what the saving would be in liters of milk. In this calculation 1 kg of DM silage equals to 11 MJ

and for the cow to produce 1 liter of milk 9 MJ is needed*. 1% in DM-losses compared to 3% or 5 % in losses equals to 5,8 liters respectively 12,5 liters of milk.

*Source: Rolf Spörndly, Swedish University of Agricultural Sciences, Dept. of Animal Nutrition and Management

Parameters/benefits	Case 1 – Tenospin/Tenospin plus	Case 2 – 3% DM-losses	Case 3 – 5% DM-losses
Energy per Kg DM MJ	11,0	11,0	11,0
Energy losses in total MJ	39,7	91,5	152,6
Energy needed for 1 l milk*	9,0	9,0	9,0
Liter milk/bale	4,4	10,2	17,0
Difference liter milk	Reference	-5,8	-12,5

Table 2

Short facts

With Tenospin and Tenospin plus compared to market standard, you can:

- Get a silage quality tested product
- Produce baled silage with DM-losses of 1%
- Save between 1-2 EUR per bale
- Save between 20-43 EUR per reel of bale wrap, when applying 6 layers
- Decrease losses equal to 6-13 liters of milk per bale

For higher output, always go for best fodder quality!

Efficient & sustainable silage making

We know the hazards and challenges of the harvest season and we can support you with our many years of experience. If you need help, our silage experts and technical support team is there to support you to improve your yield, efficiency and sustainability in your silage making - all over the world.

Follow us on Facebook and Instagram
@tenospin



Find out more on
tenospin.com



Trioworld
Box 143
SE-333 23 Smålandsstenar
+46 371 345 00



APE Europe objective is to improve agri wasterecyclingrate by the implementation of national collecting Schemes (NCS) all over Europe.