

SILOBOX[®],

a film with numerous advantages

Silobox[®] is a patented product, very innovative, using the same technology as food-grade film. Made from high quality raw material, it is recyclable. With Silobox[®] as a standalone, there is no more need to use two films to cover the silo.



Airtightness

< 5 cm³/day/m², that is 50 times more airtight than a conventional NF EN 13207 150 μ film. The film is homogenous over its complete surface, there is no welding which could lead to leaks.



Food-grade

The film is completely safe. No heavy metals.



Eco-design

SILOBOX[®] can be collected with all the other silage covers for recycling. SILOBOX[®] has a positive impact on the carbon footprint, it uses less oil based fossil raw materials because of its optimized thickness. Its green side will blend in with the background on your farm.



Mechanical properties

Conforms to norm NF EN 13207.



Easy unwinding

Thanks to a specific folding technique, its use and its positioning on the silo are made easy (it is little affected by wind). The black side will be in contact with the forage.



UV-Protection

18 months (for a radiation level of < 130 KLy) class S3.

BARBIER GROUP have been servicing the agricultural industry for more than 60 years. Barbier manufacture a full range of cutting-edge plastic films for agricultural applications. BARBIER GROUP are the n°1 French manufacturer and one of the European leaders.

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You are worry-free because you have chosen Barbier agricultural film



Discover SILOBOX[®]

the new oxygen barrier
silage cover!



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Discover
SILOBOX®
the new oxygen barrier
silage cover!

A silo represents a large investment.
Forage spoilage can result
in important financial losses.
An airtight silo is a silo
with minimal spoilage.

Discover **SILOBOX®**,
the new silage cover
that is **50x** more airtight
than a conventional polyethylene film.

Patent: N. 14 55909 Oxygen-barrier film.



With **SILOBOX®**
the word “conservation”
takes on a whole
new meaning

Losses in the silo

are a major financial issue that needs to be taken into account

While ensiling, several parameters influence future losses in the silo

-10% Dry matter percentage at harvest

If the dry matter percentage is not optimal (between 32 and 35%), losses can go up to 10%.

Cutting length and grain bursting

An adequate cutting length will result in higher quality forage. A better cracked grain means better quality starch and a higher feed value.

-10% Silo compaction

Insufficient silo density can result in additional losses of up to 10%. This phenomenon results in important losses (through consumption of sugars, development of mould, mycotoxins...).

-10% Use of a strong and airtight cover

A low quality cover can result in additional losses of up to 10%.

-5% Speed of consumption and holding up the silo face

If the silo is consumed too slowly, or if the silo face does not hold up, this can result in additional losses of up to 5%.

-10% Fermentation process

10% of losses are linked to oxygen consumption and the length of the fermentation process: losses through production of "juice" (if the percentage of dry matter is not optimal), areas that are mouldy and not fit for consumption, losses through production of gas (respiration, anaerobic fermentation), and restarting of the fermentation process when the silo is reopened.



Best practices

result in more feed value for your silo

Spoilage and losses in the silo result in more spending on feed, and a lower value for finished products (milk or meat). Less juice, less mould and less gas can result in an increase in the value of the silo of more than 5%.

10m³ of better conserved grass silage means

+4000 liters*



or +400 kg*

10m³ of better conserved maize silage means

+5000 liters*



or +500 kg*

A gain of **5%** in the silo means

1 ha saved



out of 20 ha of forage



An airtight silo

is the key to good forage storage

The airtightness and hermeticity of your silo are essential factors to increase the value of your forage. Any entry of air is detrimental to the proper conservation of ensiled forage.

The difference in airtightness between silage covers is not visible to the naked eye, but has been proven through tests in the laboratory and in the field.

A silage cover that conforms to the NF EN 13207 norm has an oxygen transfer rate (OTR) of less than 250 cm³/day/m², while a simple protection cover - made from recycled material that can lead to micro-porosities - has an OTR 4 to 10 times higher (worse).

An oxygen barrier film has a controlled airtightness compared to a conventional silage film. It enables optimal protection of the forage and decreases the losses of nutrients and feed value of the silo, especially on the surface of the pile and on the edges.

An oxygen barrier film has the additional advantage of better controlling temperature levels in the silo and therefore enabling better conservation of the ensiled forage. This avoids increases in temperature linked to the fermentation process, and therefore keeps the silo from restarting the fermentation process.



To control the quantity of oxygen in the silo is to:

Reduce aerobic fermentation which is detrimental to forage quality

Reduce the loss of Dry Matter through the consumption of sugars by respiration



The solution for good forage storage:
SILOBOX®
the new oxygen barrier film

Several trials and laboratory tests, verified by SGS, have proven the exceptional quality of SILOBOX® film.

50
times
more airtight

than a conventional polyethylene silage cover.

Trials that were done at Cemagref and INRA du Pin (two French public agricultural research institutes), have shown that SILOBOX® can decrease by 5% losses in the silo compared to a standard NF EN 13207 silage film.

SILOBOX® film has very strong oxygen barrier properties, which results in high quality forage.

The higher energy value of the ensiled forage ensures nutrient-rich feed and therefore better results for your livestock.

SILOBOX®
the all in 1 film
that makes it easier!