

ProSid™ Pellet Pro

Perfect performance in every pellet

Superior moisture management with mill optimization

- Retain pelleted feed volume
- Preserve pellet quality and uniformity
- Improve mill throughput
- Reduce energy costs

Moisture Management at its finest

Hidden moisture losses in feed production

The pelleting process involves a lot of heat and friction. Up to 3 % of the moisture in your feed raw materials evaporates during the pelleting process. That is 30 kg per ton of product that evaporates. And so do your profits!

Not only does this directly impact your volume, it may also reduce pellet quality, uniformity, consistency and hardness. All of that may be prevented by proper moisture management. Improved pellet quality has even shown to improve feed intake.

The value of volume evaporating

Let's do a quick calculation:



100,000
tons of feed produced annually

X



30
kg per ton lost moisture

X



€350
average selling price of finished product



€1,050,000
loss of value

ProSid™ Pellet Pro helps to replace lost moisture



ProSid™ Pellet Pro advantages for moisture management

ProSid™ Pellet Pro substantially lowers the water surface tension and promotes the distribution of water in feed. It will help to:

- mitigate up to 3% moisture losses.
- preserve high pellet quality and uniformity.
- support pellet hardness and durability.
- improve pellet quality which supports optimal animal performance.

The numbers: moisture retention improvements

Moisture retention was compared between untreated product and different dosages of ProSid™ Pellet Pro. The ProSid™ Pellet Pro treated product retained up to 28% more moisture.



Optimize Milling Operations

ProSid™ Pellet Pro's additional benefits for milling operations

There are benefits from using ProSid™ Pellet Pro that go beyond the impact that moisture management has on pellet quality and volume. After all the behavior of the feed changes due to the optimized moisture content and the lubricating effects of ProSid™ Pellet Pro.



Throughput improvements of up to 18%

By optimizing moisture absorption and retention during feed production, ProSid™ Pellet Pro has demonstrated throughput improvements of up to 18%.

+18%

€1.10
per ton

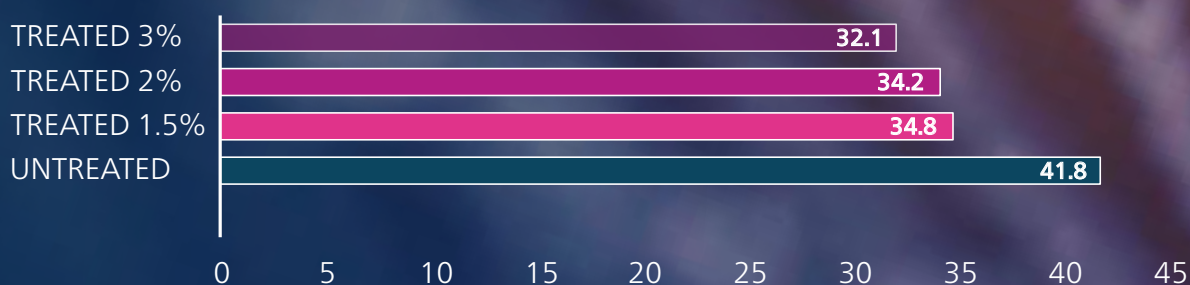
Reduce energy consumption up to €1.10 per ton

Thanks to its lubricating function and reduced drier requirements, ProSid™ Pellet Pro can reduce energy consumption up to 1.10 Euro per ton.



The numbers: reduction in energy consumption

Energy consumption of a feed mill was compared between untreated product and different dosages of ProSid™ Pellet Pro. The ProSid™ Pellet Pro treated product used up to 23% less Kw/Hour.

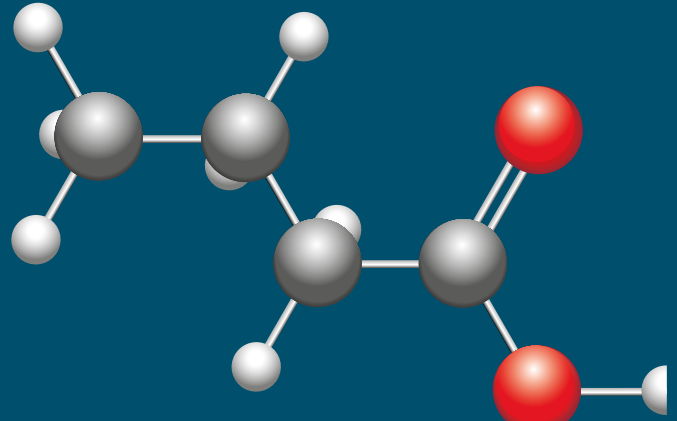


The power of esterification

A unique patented solution

ProSid™ Pellet Pro features our patented glycerol esters of propionic acid. This innovative molecule:

- allows for greater penetration of moisture into the feed materials.
- helps to draw water into the feed pellets as bound moisture.
- helps to create an environment that supports mold inhibition to improve shelf life of the final feed.
- has a prolonged efficacy compared to buffered organic acids.
- provides a low-corrosivity organic acid solution without dangerous goods restrictions on transport or storage.



How it works:

effects on water surface tension

ProSid™ Pellet Pro substantially lowers the water surface tension and promotes the distribution of water in feed. Esters of fatty acids are well known emulsifiers and surfactants:

Water without
ProSid™ Pellet Pro



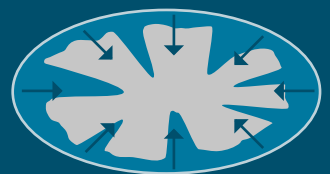
Water with
ProSid™ Pellet Pro



Feed particle without
ProSid™ Pellet Pro:
accumulation of moisture
in the outer layer



Feed particle with
ProSid™ Pellet Pro:
more equal spread of
moisture

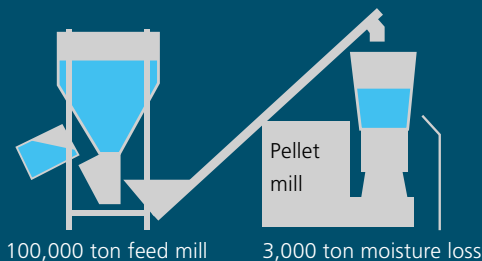


An example calculation

Standard process

Pelleting and heating process

Losses due to evaporation



Evaporation in a standard process

Moisture losses
3,000 tons



Energy in a standard process

Higher kWh valued at €1.10 per ton



Pellet properties in a standard process



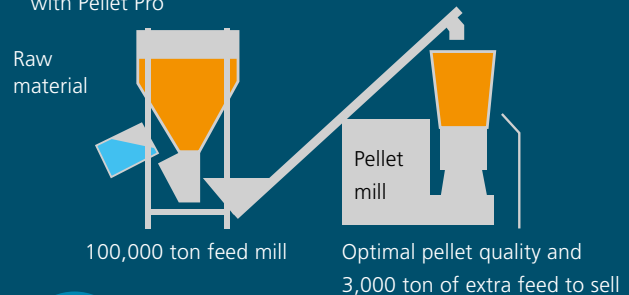
Throughput in a standard process

18% lower throughput

Process with ProSid™ Pellet Pro

Pelleting and heating process

Losses are mitigated with Pellet Pro



Evaporation with ProSid™ Pellet Pro

€1,050,000
saved



Energy with ProSid™ Pellet Pro

€110,000
saved



Pellet properties with ProSid™ Pellet Pro

€350,000
with a 1% improved Pellet Durability Index



Throughput with ProSid™ Pellet Pro

18,000 tons
more feed produced in the same time

All that peace of mind:
Immeasurable

More information on:

www.perstorp.com/ProSid-Pellet-Pro

Get the gut wealth feeling

When you have gut health completely under control, that's the feeling of gut wealth – only from Perstorp. It's knowing you have the right approach to gut health and that you're achieving it in the right way – with expert support, proven gut health solutions and responsible sourcing. Find out more about gut wealth at www.perstorp.com/gutwealth

For more information on ProSid™ Pellet Pro, contact your sales manager or email animal.nutrition@perstorp.com