

SMARTER HYDRATION. SAFER FEED. BETTER PROFITS

At Norel, we have introduced a new product in our feed technological additives range: **HYDRONOR**

WHAT IS IT?

HYDRONOR is a **water recovery product**, specifically designed to increase the water content of feeds, either pellet or mash form, as well as directly to raw materials.

This provides both economic and nutritional advantages. Water losses during feed manufacturing represent a direct economic loss for feed producers, while maintaining the correct water content in the final feed offers additional nutritional benefits, such as improved palatability.

HOW CAN I USE IT?

The product contains selected ingredients that allow the incorporation extra of up to **2% additional water**. You can premix the extra added water with the product, and after add it to the mixer.

On one hand, **HYDRONOR recovers water lost during grinding**; on the other, **it prevents water loss during cooling**. Avoiding the typical drawbacks associated with excess moisture.



WHAT ARE THOSE DRAWBACKS?

When water content increases, **fungi and bacteria** can proliferate, since free water provides a favorable medium for their development. Once microbial growth begins, conditions become even more favorable for the growth of molds and bacteria: the **metabolic activity of molds and bacteria generates heat and additional moisture**, further accelerating their proliferation.

HOW DOES HYDRONOR AVOIDS THESE DRAWBACKS?

HYDRONOR is formulated as an **amphipathic system** (both hydrophilic and lipophilic), carefully selected according to its **HLB value** (**Hydrophilic-Lipophilic Balance**) for feed applications. This enables higher water incorporation into feed and raw materials **without increasing the fraction of free water** available for microbial growth.

For additional safety, it contains **specific organic acids**, at concentrations high enough to **inhibit the growth of fungi and bacteria**, ensuring feed stability during storage.

WHICH ADDITIONAL ADVANTAGES HAS THE PRODUCT?

It is a high concentration and **low inclusion** product:

Its concentrated formulation minimizes inclusion rates, preserving space in the formula of the feed. It can be added to both mash and pellet feed, but also to raw materials

Key synergy with binders: can and should be used with a pellet binder, such as our product **DUOBIND**, to create synergistic effects and enhance pellet quality

It does not contain ammonium formate in its composition, so it can be used for all species in the European Union

HYDRONOR IS A PRODUCT THAT WILL IMPROVE THE QUALITY OF YOUR FEED OR RAW MATERIAL, WHILE YOU SAVE MONEY.