

PRO-BIND PLUS



THE CONCENTRATED, NUTRITIONAL PELLET BINDER

Each feed producer faces problems with pellet hardness and/or stability every once in a while. These problems are most often resolved by changing the pelleting parameters (e.g. double pelleting, extra conditioning, etc.) or by changing the formula of the feed. A pellet binder can be a very useful alternative in case of limited possibilities to adapt the process or the formula, or in case of more than substantial stability requirements (e.g. water stability or durability of pellet).

Natural Ingredients. Smart Solutions.

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DARLING
INGREDIENTS

AN IDEAL BINDER FOR ENERGY AND PROTEIN CONCENTRATED FEEDS

There is a broad range of pellet binders available for the (aqua) feed industry. Some synthetic binders like urea formaldehyde are very effective, but are banned in the EU and USA. A second important line of binders are the so-called ligno sulfonates. These products are by-products from the paper processing industry and are mostly used in ruminant feeds. A third category are the mineral binders (e.g. sepiolites). Some of these products claim to have a positive effect on the digestibility of non-ruminant feed. But basically these mineral binders have no direct nutritional value.

Pro-Bind Plus however is a nutritional pellet binder. Pro-Bind Plus is a specifically processed non-ruminant gelatin. It has a very high protein content (>85%) and typical inclusion level in the feed (< 0,5%) is very low. This implicates that Pro-Bind Plus is an ideal binder for energy and protein concentrated feeds, like aqua feed, pet food, broiler, turkey and piglet feed.

Binder	Pro-Bind Plus	Urea formaldehyde	Ligno Sulfonate ₁	Sepiolite
Typical inclusion level	0,25-0,50%	0,5-1,0%	1,0-2,0%	1,0-2,0%
Nutritional value	high	none	low	indirect
EU and USA approved	yes	no	yes	yes
Suitable for aqua feed	yes	yes	no	no
Protein content binder %	>85%	0%	0%	0%
Fibre content binder %	0%	0%	75%	0%
Ash content binder %	3%	0%	16%	100%
Natural ingredient	yes	no	yes	yes

1) 2x concentrated version

Pro-Bind Plus is supplied as a 100 mesh powder. Sonac's specific production method of Pro-Bind Plus results in a very reactive powder. It is however important that the feed is sufficiently conditioned before pelleting. Pro-Bind Plus can be directly added to the mixer. Dosage ranges between 0,25 and 0,50%, depending on fat content of the feed, pelleting quality of the ingredients, hardness and/or durability requirements of the feed.

According EU directive 56/2013 (amending annex IV of EU directive 999/2001) non-ruminant gelatin can be used in feeds for all species (incl. ruminants). Pro-Bind Plus is a non-ruminant gelatin produced in an EU approved gelatin processing plant.

Sonac is a leading manufacturer of reliable ingredients of animal origin. With an active R&D program, reliable processes and sustainable end products Sonac continuously adjusts to market needs. A good geographical spread of locations and a broad portfolio of fats, proteins, minerals and specialties make Sonac a trusted partner for many international producers in food, pet food, feed and fertilizers, worldwide. Sonac is part of Darling Ingredients.

For more information about this specialty product please contact us:

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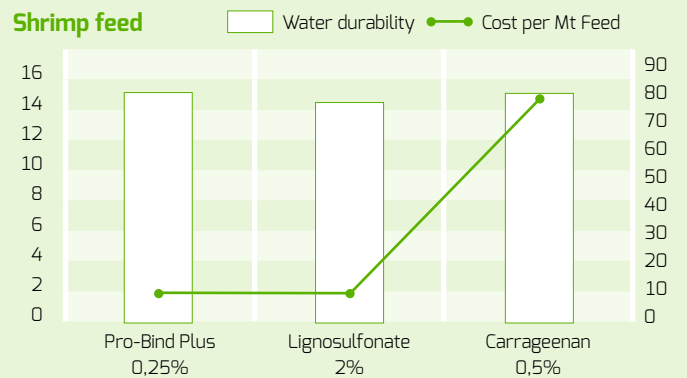
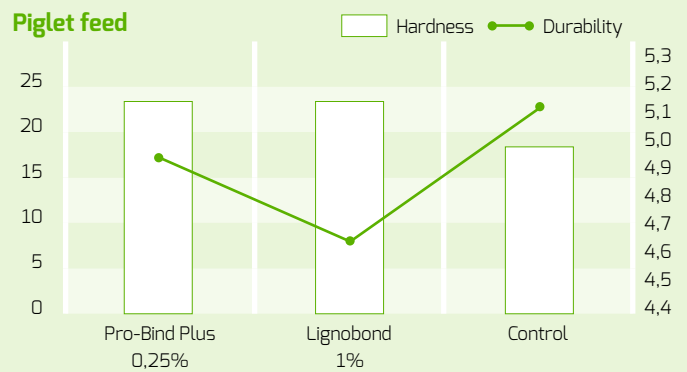
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ADVANTAGES OF PRO-BIND PLUS:

- increase pelletable durability and water stability;
- low dosage;
- high nutritional value;
- natural;
- cost effective;
- EU and USA approved

PRO-BIND PLUS RESULTS



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