

VESTKORN COLDGEL

*A versatile and environmentally-
friendly pet food ingredient*



Vestkorn



The new hot ingredient for your next product developments

Pet food formulations are dynamic systems in continuous development. Continuous changes are caused by new trends, legislations, raw material available on the market or new research available. Nevertheless, the reason behind the change is, pet food producers of premium diets are always on the lookout for natural ingredients that can be used for improving the nutritional or technical quality of the product.

Recent changes in the global market due to the Covid pandemic, as well as the crisis in Ukraine, causes the prices of raw materials to increase and simultaneously reduce available raw material on the market. Petfood manufacturers search constantly for new raw materials that tick all the boxes these materials are required to meet.

ColdGel is a carbohydrate source

ColdGel is a mechanical modified pea starch flour, having the nutritional profile akin to air classified pea starch (figure 1). ColdGel is predominantly a carbohydrate source, containing a significant portion of highly digestible pea proteins. Moreover, ColdGel is also palatable, especially for dogs due to the sweet taste of the product.

Crucial to mix with water

There is a functional difference between the native pea starch and ColdGel. The native pea starch absorbs water when heated to a temperature above 60°C. Native pea starch is ideal for conventional extrusion cooking or retort processes. ColdGel is a cold swelling starch and can absorb cold or room temperature water. It has the capacity to absorb approximately four times its weight in water. The absorption starts the moment the water meets ColdGel. So, to use ColdGel in high aqueous environments, and to use the full absorption potential, it is crucial to mix ColdGel with water at high mixing-speed.

- Functionality as a cold swelling starch
- 100% natural and gluten-free
- Highly digestible, palatable and is a very effective binder in cold pressed pet food and snack formulations
- Positively affects the colour of the pet food

DRY MATTER	VALUE	UNIT
Starch	71-75	%
Crude protein	12-14	%
Crude fat	0.5-2.0	%
Crude fiber	1-3	%
Ash	1.5-2.5	%

Figure 1. Vestkorn Pea starch 70D proximate analysis

DRY MATTER	VALUE	UNIT
Starch	72	%
Crude protein	11	%
Fat	1	%
Crude fiber	3	%
Ash	2	%
Simple sugars	8	%
Oligosaccharides	3	%

Figure 2. ColdGel proximate analysis

Applications in pet food

ColdGel is a versatile pet food ingredient. It contributes to the formulation of pet food both nutritionally and by adding technical functionality and can be used in almost all forms of petfood products and processes.

Examples

Wet pet food
Dry pet food
Cold pressed pet food
Semi-moist snacks
Oven-baked snacks

Semi moist snacks

Glycerin is used as a plasticiser and for its ability to reduce water activity in semi-moist snacks. However, it is an expensive solution and pet owners now show increased interest in concepts with reduced added sugar and all natural products. Vestkorn offers a solution that naturally reduces water activity. It is industrially tested and can partly or completely replace glycerin. Furthermore, it can reduce your cost of raw material by double digits.

- Improving texture and forming
- Absorbing smells
- Combines well with meat
- Positive impact on palatability compared to grains



Pressed pet food

- Excellent binder and source of highly digestible starch



Dry pet food

- Up to 5-10% inclusion improves texture and smoothness of the surface
- Improves expansion and crunchiness of food
- Improves palatability when exchanged for any grains

Contact our sales team to receive more information about this product.



Vestkorn is an innovative global supplier of natural and sustainable ingredients from peas and beans. We aspire to make food for the global good, be a preferred choice and offer the best and most innovative pea, chickpea and faba protein solutions ever seen. Good for you and your pet. Good for the planet.

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