

NKB[®]

NATURAL KELP BINDER

100% CONCENTRATED SEAWEED POWDER





NBK® - Natural Kelp Binder is a Natural Seaweed Binder.

NBK® is a concentrated 100 % seaweed powder that due to its natural biochemical composition is a rich source of minerals and oligosaccharides. Is an advanced-generation, organic, long thermo-reactive pellet binder that forms durable feed pellets with exceptional water stability at low inclusion levels.

NBK® IS MELAMINE FREE

NBK® COMPOSITION: The main characteristic of **NBK®** is that it contains a high percentage of oligosaccharides (alginates, laminaran, mannitol and fucoidan) which are the reserve sugars of the seaweed, and also free minerals.

ALGINATE contained in **NBK®** is a natural binder because it is present in its soluble form with high viscosity. This is one of the main characteristics of **NBK®**, which gives an excellent binder in shrimp and fish balanced diets and it allows obtaining pellets or extruders with good binding force although with a smooth texture.

In other animal feed like Pigs, Chicken and Cattle, avoid the losses of dust in pellet and provides advantage to the feed manufacturer by offering opportunities for greater formulation flexibility, cost reduction per unit binding capacity, and consistent quality pellets.



NBK® EXTRA BENEFITS

MANNITOL has the capacity to improve the digestibility in the animals that consume it obtaining better assimilation of nutrients and optimizing protein consumption. The health in pets is greatly improved by their digestion. **NBK®** improves digestibility allowing the animal to take better benefits of the feed.

LAMINARAN works as an anticoagulant allowing a better blood flow in the animals. In addition, it is very important in the formation of the bones and carapaces for animals and crustaceans. Sulfated laminaran in salmons functions as a viruses inhibitors (Dalmo et al 1996).

FUCOIDAN works also as a viruses inhibitors, fortifying the immunological system of the animals who consume it. Fucoidan is a complex molecule that has two fractions:

U-FUCOIDAN composed of sulfated sodium, xylose and guluronic acid (alginates), and L-fucoidan composed of fucose.

NBK® is obtained in a process that uses the fresh seaweed immediately after harvest, conserving by this method, the U-fucoidan in the concentrated powder. This fraction of fucoidan is of great value, since it has been proven as an effective viruses inhibitors for the animals, as it is the case of shrimp farming against the white spot syndrome virus (WSSV) (Takahashi et al 1998) and in dogs, helping to reduce the problems of intestinal parasites.



**RECOMMENDATION
OF USE**

Fish and Shrimp feed: 5 to 7 kilos per ton of feed as **BINDER**.
Other animals: 0.5 to 1 kilo per ton of feed to AVOID the losses of dust in feed.

APPLICATIONS

NBK® is recommended to be added directly into the Mixer. For best results, ensure accurate addition and thorough mixing of the product.

APPEARANCE

NBK® is a brown/green light high hygroscopic powder with seaweed odor. Any change in color of the product does not affect its performance.

STABILITY

NBK® is stable for one year from the date of manufacture.

STORAGE

NBK® should be stored in a cool, dry place away from sunlight. Keep the container closed when not in use. Is highly hygroscopic in nature and hence proper storage precautions are necessary.

PACKING

NBK® is available in 25 kg (55lb) polypropylene cloth bags.

COMPATIBILITY

NBK® is compatible for use with all commonly used feed ingredients and premixes.

**Garanteed analysis and
Biochemical composition**

pH: 7.0- 8.5
Protein: 14- 16 %
Carbohydrates: 18-25 %
Moisture: 10 % max
Particle size: 200 mesh
Viscosity : 2,000-3,000 cps
Soluble Alginates : 40 - 44 %



is a 100 % natural product.
The typical analysis will vary due
to naturally occurring fluctuations
in the seaweed.



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