

TOXIBOND

Anticompactant – Mycotoxin Adsorption

TOXIBOND is a hydrated and active sodium and calcium aluminum silicate (HSCAS), safe for all humans and animals. The composition and physical chemical characteristics of Toxibond (pH, cationic exchange capacity, granulometry, particle size, water adsorption & range of temperature use, etc.) support its use as a wide spectrum mycotoxin adsorption tool.

TOXIBOND reduces humidity levels in stored grains and feeds and prevents mold and toxin growth.

Chemical Composition

SiO ₂	63.90	%
Al ₂ O ₃	16.20	%
CaO	1.95	%
Fe ₂ O ₃	3.32	%
MgO	2.90	%
Na ₂ O	3.90	%
K ₂ O	0.80	%

Physical Properties

pH (Alkaline)	8.90
C.I.C.	38.52 MEQ
H ₂ O	8.00 %
Color	Beige
Toxicidad	Non Toxic
Water Adsorption	Low
Granulometry	30% 325 - 70% 250 mesh
Activación	at 120 °C
Eléctrical Charge	Bipolar (+ / -)
Tamaño del Poro	2.8 A°
Category	Wide Spectrum
Compatibility	With all ingredients

TOXIBOND has a low cationic exchange capacity and bipolar electrical charges which make it ideal to absorb a wide range of toxins: Aflatoxin B₁, Zearalenon, Ocratoxin, Vomitoxin, Fumonisin, T₂ y Citrinin.

TOXIBOND binds the active chemical groups that make up the toxins through Van der Waals forces and converts them to compounds of larger sizes which prevents their adsorption into the animal's intestinal wall.

TOXIBOND does not expand which results in a low capacity of water adsorption. This preserves the activity levels of other nutrients such as vitamins, minerals and drugs in the feed and gut.

Results of TOXIBOND (at 0.25%) As a Mycotoxin Binder

<u>Mycotoxin</u>	<u>Adsorption level</u>
Aflatoxin B ₁	92 – 96 %
Ocratoxin	68 – 70 %
T ₂ Toxin	82 – 85 %
Citrinin	85 – 90 %
Vomitoxin	75 – 80 %
Zearalenon	48 – 51 %
Fumonisin	60 – 65 %

TOXIBOND can also be used as a pellet binder.

Usage:

TOXIBOND should be used at a rate of 2.5 Kg. per metric ton of finished feed. In extreme cases of mycotoxin presence, dosage can be increased to 5 kg per MT.

Presentation:

Polyethylene bags with an internal poly liner - 25 kg net weight.

Ingredients:

100% Aluminum Silicates of Sodium & Calcium, hydrated and activated thermally at 120°C