

## How can Meri-Bond Xtra contribute to a safer and healthier environment?

- High affinity for binding ammonia helps to reduce respiratory problems whilst providing superior odour control and promoting a safer and healthier environment
- Prevents wet droppings and wet litter caused by diarrhoea
- Reduces ammonia emissions and odours from litter to improve air quality
- Biodegradable and environmentally friendly upon excretion
- Non-toxic to both animals and humans

### Application

Add to mixer with other ingredients and mix homogenously.

### Inclusion rates

General inclusion: 1 - 6kg per tonne of feed

Mycotoxin prevention: 2 - 4kg per tonne of feed

Mycotoxin control and removal: 4 - 6kg per tonne of feed

*Or as otherwise directed by your nutritionist.*

Where more specific aflatoxin levels are known, the following inclusion rates may be applied:

Aflatoxin Level (parts per billion or ppb)	Meri-Bond Xtra inclusion rate (per tonne of finished feed)
<20	1kg
20 - 40	2kg
40 - 60	3kg
60 - 80	4kg
80 - 100	5kg
>100	6kg

*Note: 1 part per billion (ppb) is equivalent to 1 microgram per kilogram ( $\mu$ g/kg)*

# Meri-Bond Xtra

A LOT XTRA... AT XTRA-ORDINARY VALUE

## IS YOUR FEED MYCOTOXIN FREE?

100% efficacy against aflatoxins at pH3



Xtra benefits - Xtra savings - Xtra profit - Naturally



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Approved by the EU for use in the swine and poultry industries as a mycotoxin binder under the directive 70/524/EEC.

Approved by FDA for use in animal feeds as an anti-caking agent (CFR 582-2727).



**Meriden**  
ANIMAL HEALTH

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## What is Meri-Bond Xtra?

It's a toxin binder, ammonia binder and anti-caking agent with a very high cation exchange capacity (CEC). It is suitable for use in all types of animal feed.

Meri-Bond Xtra contains an extremely pure form of clinoptilolite, which is a zeolite naturally formed by the devitrification of volcanic ash in lakes and marine waters.

## How does Meri-Bond Xtra work?

It has selective absorption. It binds aflatoxins and ammonia efficiently and effectively whilst leaving behind the vitamins, minerals or other nutrients in the feed. This is due to what is known as cation exchange. It is this high cation exchange capacity of clinoptilolite that provides most of Meri-Bond Xtra's useful properties.

## What do you get Xtra?

- Xtra cation exchange capacity
- Xtra binding properties
- Xtra feed pellet durability
- Xtra stability during feed processing (pelleting, extrusion) and storage
- Xtra resistance and durability over a wide range of conditions (including pH, temperature and humidity)
- Xtra anti-caking properties and flow agent for feed

## What is the benefit of Meri-Bond Xtra's very high cation exchange capacity?

The high cation exchange capacity is the very core of Meri-Bond Xtra's mode of action, which makes it an excellent toxin binder, anti-caking and ammonia binding agent.

Meri-Bond Xtra has a low binding affinity for antibiotics, coccidiostats, vitamins, minerals, amino acids, other nutrients and feed additives, leading to less wastage, which in turn saves money.

## What are the major improvements to the quality of feed due to Meri-Bond Xtra's useful properties?

- Guaranteed higher ability to bind aflatoxins and other types of mycotoxins
- Strongly binds heavy metals such as cadmium, lead, nickel and mercury
- Improved uniform dispersion of feed ration ingredients by reducing agglomeration during mixing

## Will Meri-Bond Xtra improve the health and performance of the animals as well as their feed?

Yes, extensive research has shown that Meri-Bond Xtra:

- Improves growth rate and increases daily weight gain by improving feed conversion efficiency in all animal species
- Reduces incidences of scours, acidosis, enteritis and other gastrointestinal tract problems
- Supports proper growth and development of bone tissue and structure
- Improves egg quality in terms of internal quality, egg shell quality and results in fewer dirty eggs in commercial layers
- Boosts and strengthens the immune system to protect animals against various diseases
- Minimises the risk of secondary bacterial invaders such as *E. coli* and *Salmonella spp.*
- Acts as a rumen buffer in the digestive tract of high performance dairy cattle
- Provides high return on investment at low cost

## Is Meri-Bond Xtra free from heavy metals?

Yes, it has a high degree of purity and is free from heavy metals.

## Compatibility

Compatible with all types of feed ingredients.

