



A Natural Source of
Minerals and
Trace Elements

[Home](#)

[About AZOMITE](#) ▾

[AZOMITE Results](#) ▾

[Testimonials](#) ▾

[FAQ](#) ▾

[Contact](#) ▾

[Order](#) ▾

[Links](#)

AZOMITE® Frequently Asked Questions - Animals

Q: [What is AZOMITE®?](#)

Q: [What effect does AZOMITE® have in animals?](#)

Q: [How is AZOMITE® different typical feed minerals?](#)

Q: [Aren't all the necessary minerals already in the feed?](#)

Q: [What is AZOMITE® composed of?](#)

Q: [Is AZOMITE® organic?](#)

Q: [Where does AZOMITE® come from?](#)

Q: [Does AZOMITE® contain heavy metals?](#)

Q: [How is AZOMITE® applied to the feed?](#)

Q: [How do animals assimilate AZOMITE® in the gut?](#)

Q: [What types of animals is AZOMITE® effective on?](#)

Q: [Is AZOMITE® a toxin binder?](#)

Q: [Is AZOMITE® a zeolite or bentonite?](#)

Q: [Will AZOMITE® degrade the quality of feed pellets?](#)

Q: [How much AZOMITE® do I need per metric ton?](#)

Q: What is AZOMITE®?

AZOMITE® is a naturally rich trace mineral booster for animals and also a soil re-mineralizer for plants. **AZOMITE®** is a registered trade name and is an acronym for "A to Z of Minerals Including Trace Elements".

Q: What effect does AZOMITE® have on animals?

Generally, when **AZOMITE®** is added to the feed, animals improve average daily lean gain, immune response and feed conversion ratio. **AZOMITE®** pays for itself and increases profits for animal growers.

Q: How is AZOMITE® different from typical feed minerals?

Most conventional mineral feed mixes only contain about 10 trace elements. Some feed manufacturers neglect *all* of the "trace" minerals. For animals to complete their life cycle and produce at full potential, a wide range of minerals is necessary; **AZOMITE®** supplies that essential wide range --- "from A to Z". For a list of the main trace minerals and their functions and benefits to animals, [click here](#).

Q: Aren't all the necessary minerals already in the feed?

In most cases, no. The world's cropland has been under cultivation for many decades. With each crop cycle, plants remove trace minerals from the soil or the elements are lost through erosion. Since most fertilizer programs only replace N, P and K, crops become deficient when the soil has been depleted of the trace elements. Most feed ingredients are lacking the full range of minerals that were deficient in the soil. Of course, animals can complete their life cycle without the full range of minerals but they will not produce at their full potential or be healthy and adequately resistant to disease.

Q: What is AZOMITE® composed of?

In an average chemical assay, **AZOMITE®** contains more than 67 trace minerals which includes many rare earths elements (lanthanides). Many of these elements have been depleted from soils worldwide. For a complete chemical analysis of **AZOMITE®**, [click here](#).

Q: Is AZOMITE® organic?

Yes. **AZOMITE®** is certified organic by the Organic Materials Review Institute (OMRI) in the United States. **AZOMITE®** is simply mined, crushed and sold. Nothing is added or altered in any significant way. It is natural and organic in the most basic sense.

Q: Where does AZOMITE® come from?

AZOMITE® is mined from a 30 million year-old volcanic ash deposit located in central Utah, USA. **AZOMITE®** is classified as a Hydrated Sodium Calcium Alumino-Silicate (HSCAS). Scientists believe that the unique chemical make-up of **AZOMITE®** is because the ancient volcano spewed ash out its side into a seabed. This combination of seawater, fed by hundreds of rivers rich in minerals, and the

rare and abundant minerals present in volcanic ash created the **AZOMITE®** deposit which is found nowhere else on Earth. For pictures of the **AZOMITE®** mine, [click here](#).

Q: Does AZOMITE® contain heavy metals?

A: Yes, but in lesser amounts than exists in a typical feed. **AZOMITE®** is Generally Recognized as Safe (GRAS) by the US Food & Drug Administration (FDA) and is certified for organic agriculture by the Organic Materials Review Institute (OMRI). Remember, **AZOMITE®** is a product from the Earth, is not chemically altered, and cannot harm the environment.

Q: How is AZOMITE® applied to the feed?

AZOMITE® is processed into a fine powder that is around 200 mesh. This powder is easily added to the feed pre-mix.

Q: How do animals assimilate AZOMITE® in the gut?

In an animal's gastric phase, **AZOMITE®** is exposed to large amounts of hydrochloric acid that likely converts the minerals into chloride salts that are soluble in the gut. Also, the mineral oxides in **AZOMITE®** may combine with the breakdown products of proteins or carbohydrates in the gut to form "chelates" which are soluble. These natural chelates are readily absorbed into the blood stream where the mineral can be made available and utilized by the animal's biochemistry.

Q: What types of animals is AZOMITE® effective on?

AZOMITE® has proven results – scientific or anecdotal – in the following species of animal: shrimp, fish, cattle, pig and, poultry. It is not surprising that **AZOMITE®** should work in many more types of animals because most require the same types of trace elements that the feed is often lacking.

Q: Is AZOMITE® a toxin binder?

Most substances – including the feed itself – have the ability to bind toxins, some better than others. **AZOMITE®** has been shown to bind toxins present in feed in laboratory tests, however, feed producers use **AZOMITE®** for its trace elements content, not usually for its toxin-binding ability. In addition, many feed producers do not believe that toxin binders provide *any* benefit and many studies show that toxin binders (like zeolites) only work *in vitro* against only one, or a few, mycotoxins!

Q: Is AZOMITE® a zeolite or bentonite?

No. Geologists put **AZOMITE®** in a very broad class known as a "Hydrated Sodium Calcium Alumino-

Silicate” (HSCAS) but it is unique because of its chemical make-up. The physical structure, number and abundance of trace elements in **AZOMITE®** are distinct from any other deposit. An “HSCAS” is such a non-specific classification of mineral deposit that it is akin to calling a Blue Marlin simply a “fish” – a factual statement, but not precise.

Q: Will AZOMITE® degrade the quality of feed pellets?

No. **AZOMITE®** is a natural anti-caking agent and does not alter feed pellet quality in any significant way. It may even lower the cost of the feed pelleting process.

Q: How much AZOMITE® do I need per metric ton?

Different feed producers use different amounts but none exceed more than 2% (20 kg/metric ton of feed) or go below 0.25% (2.5 kg/metric ton of feed). Most feed producers use **AZOMITE®** at 0.5% (5 kg/metric ton of feed) but they may increase or reduce that depending on how much stress the animal is experiencing at a particular moment.



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