

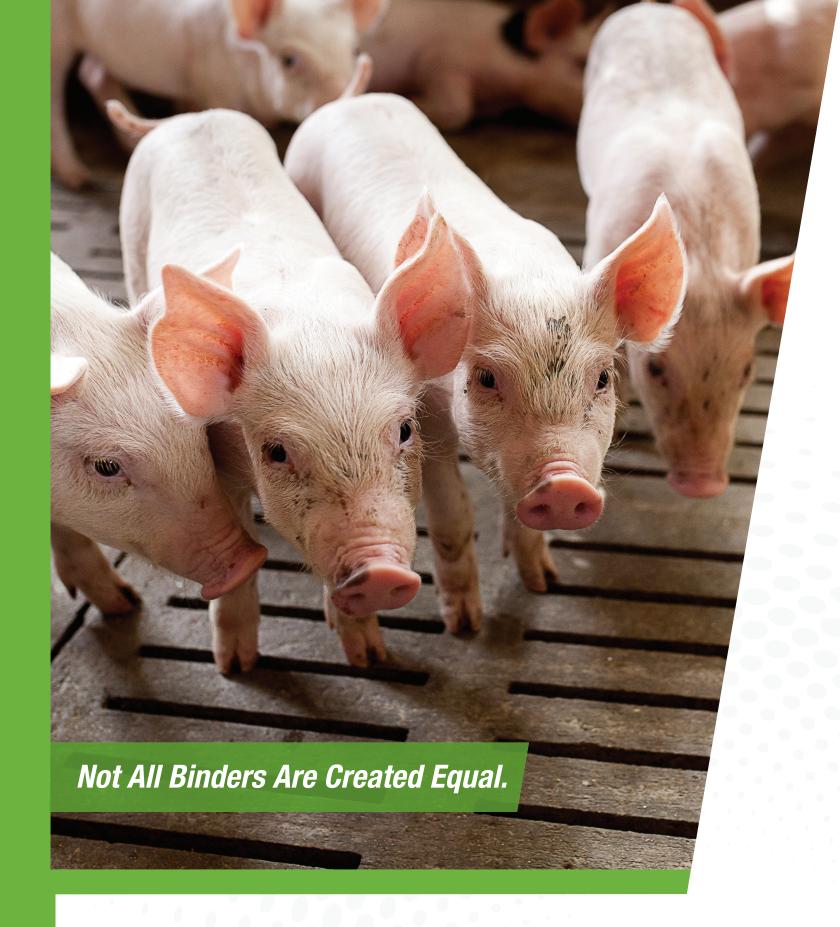
Learn more about how AB20® can support your success by helping you manage your feed quality challenges.

phone: 800.677.4623





HEALTHY ANIMALS. HEALTHY FOOD. HEALTHY WORLD.®







Livestock feeds and moisture are two opposing forces that continually challenge feed manufacturers and livestock producers alike.

Feeds and grains are ideally stored with moisture concentrations of less than 13 percent, to help "compensate for non-uniform moisture concentrations throughout the grain mass" (Whitlow, 2005, Proceedings, Florida Ruminant Nutrition Conference, Gainesville).

Feed that has been stored at a high moisture level may have a reduced flowability, have the potential to cake and be more prone to increased mold growth. The real world is less than ideal, and feeds and grains exposed to moisture concentrations greater than 15 percent are more susceptible to mold contamination (Whitlow, 2005). Mold growth may lead to mycotoxin formation during manufacturing, storage, delivery and feeding of the animals.

Effects of adsorbents on aflatoxin contamination in pigs1

- 500 ppb aflatoxin-contaminated diet
- 4 week trial/initial weight 9.66 kg

DIET

Item	Normal Corn	Aflatoxin Corn (AC)	AC + 0.5% <i>AB20</i>	AC + 0.5% Competitor A
ADG, kg	0.66ª	0.46 ^b	0.61ª	0.63ª
ADFI, kg	1.41ª	0.97 ^b	1.31ª	1.44ª
Gain/Feed	0.47	0.47	0.46	0.44
AST, U/L	64	80	57	55
GGT, U/L	49ª	85 ^b	45ª	47ª
ALP, U/L	171ª	357 ^b	178ª	169ª

 $AST = aspartate \ aminotransferase; \ GGT = gamma-glutamyltransferase; \ ALP = alkaline \ phosphatase.$

Adapted from Schell et al., 1993

AB20® specialty product is a bentonite adsorbent, containing hydrated sodium and calcium aluminosilicates, that reduces caking and flowability issues by binding moisture that is present in feed. Lower moisture in feed reduces the potential for mold growth—and lowering mold growth in feed improves its quality. This is important when you consider that some molds can produce a wide range of harmful mycotoxins.

The use of **AB20** helps reduce mold growth and mycotoxin contamination.

Unique From the Start.

It all begins with our unique and proprietary sourcing to identify silicate deposits with the unique qualities of **AB20** that provide effective performance and excellent flowability—all at a low usage rate for enhanced value from the start.

To ensure you receive consistent and effective performance, we test **AB20** in both in vitro and **live animal research trials**, backed by our team of experts who provide extensive experience and strong technical knowledge for reliable on-farm support.

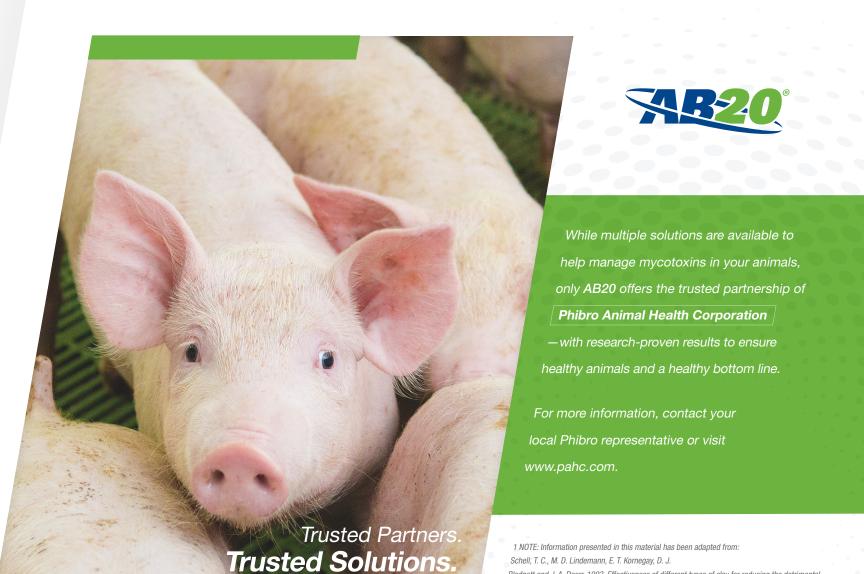
Performance Data of Weanling Pigs Fed Aflatoxin-Contaminated Diets and Clays¹

Afla (ppb) Product	0	800	800 Competitor	800 Competitor 2	800 AB20	800 Competitor
ADG, Ib						
Total	1.406	1.062	1.181	1.316	1.370	1.279
ADFI, Ib						
Total	2.908	2.578	2.565	2.613	2.917	2.797
F:G						
Total	2.067	2.434	2.173	1.986	2.132	2.188

Initial mean - 23.65 lb. All products included at 0.5% (10 lb/ton)
Adapted from Schell et al., 1993

Blodgett and J. A. Doerr. 1993. Effectiveness of different types of clay for reducing the detrimental effects of aflatoxin-contaminated diets on performance and serum profiles of weaning pigs.

J. Anim. Sci. 71:1226-1231.



^{a,b}Means with different superscripts within rows differ (P < 0.05).