

Ameri-Bond 2X[®]

Pound for pound, the most powerful pelleting aid on the market

Ameri-Bond 2X has long been recognized as one of the best, most cost-effective and versatile pelleting aids available. This excellent performance is due to Ameri-Bond 2X's ability to distribute well in the feed, absorb onto feed particles, become adhesive at the right time and, upon drying, form bonds or bridges between molecules of feed particles. This bridging is known as hydrogen bonding and is the key to Ameri-Bond 2X's performance.

Ameri-Bond 2X doesn't need to melt, swell, gel or cure. It works through simple adhesion. There is no recommended minimum conditioning temperature needed for activation. Generally, it is recommended to use as much steam as possible to properly condition the feed mash, but steam is not necessary to activate Ameri-Bond 2X. When manufacturing conditions make it impossible to reach a high conditioning temperature, Ameri-Bond 2X remains effective.

Benefits of Ameri-Bond 2X

- Manufactured in LignoTech plants — not toll-manufactured
- Researched to provide isolated molecules of the size that provide most of the hydrogen bonding, then concentrated in a proprietary process
- Provides consistency, compensating for variation in other ingredients, while delivering good quality pellets
- Backed by a dedicated research and technical team to assist your operation in improving pellet quality

Ameri-Bond 2X also features:

- No drug and mineral interaction such as with clay-based pelleting aids. Ameri-Bond 2X is safe to use with all drug, vitamin and mineral compounds
- Less hygroscopic and dusty than many competitive pelleting aids
- Less die wear and greater potential for improved mill throughput
- Low inclusion saves on formulation costs



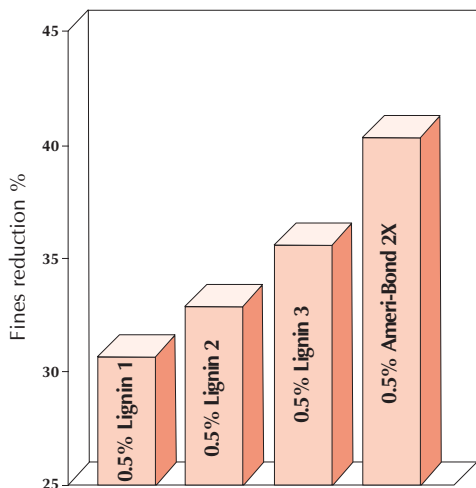
Borregaard
LignoTech



The following production trials clearly illustrate the effect on quality provided by Ameri-Bond 2X

Comparison of competitive lignin-based pelleting aids

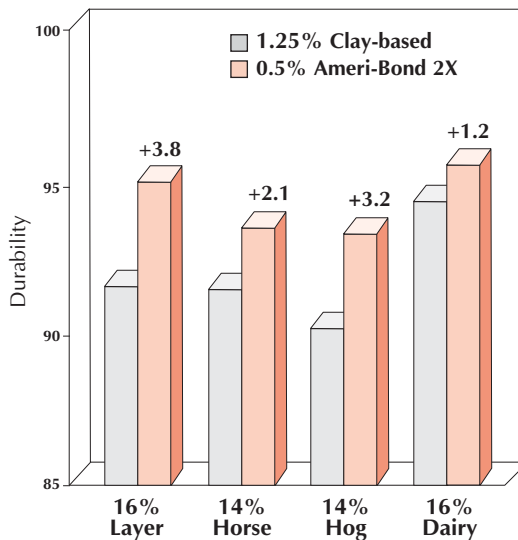
Effect on Pellet Quality



Overall, Ameri-Bond 2X reduced fines by 20% more than these competitive pelleting aids.

Comparison with clay-based pelleting aid

Effect on Quality



At a much lower inclusion rate, Ameri-Bond 2X outperformed the clay-based pelleting aid.

Ameri-Bond 2X[®]

Superior performance from superior technology

Recommended usage rates are 0.30 percent to 0.75 percent with 0.50 percent being the most common recommended rate. The usage rate will be dependent on the need, manufacturing equipment, mill conditions, ingredients and formulation. The binding response is not always linear and LignoTech can provide assistance in determining the most cost-effective application rates for individual feeds.

Ameri-Bond 2X improves all types of pelleted feeds:

- High-fat rations
- High-grain rations
- High-fiber rations
- Urea supplements
- Pig starter rations
- Specialty formulations

Also available in bulk



LignoTech USA, Inc. • 100 Highway 51 South
Rothschild, Wisconsin 54474-1198
715-359-6544 • FAX 715-355-3674
Email animalfeed@borregaard.com



Borregaard
LignoTech