



## Product Information

MIN-AD® is a palatable natural mineral compound that is mined from a high purity deposit. It is composed of a double carbonate of calcium and magnesium and a number of beneficial trace minerals. MIN-AD is employed in dairy and beef cattle feeds to improve performance, increase microbial growth, regulate digestive tract pH, and as a mineral source. A unique combination of chemical properties, total acid consuming capacity, and rate of solubility helps it to maintain optimum digestive tract conditions. Over thirty years of research and producer experience have shown significant improvements in feed conversion, more milk and butterfat in dairy cows, increases in average daily gain, and reduced cost-of-gain.

MIN-AD Standard is used in dry supplements or buffer packs, either as a loose mix or in pellets. It can also be fed free choice. MIN-AD Fines is an ultra finely ground product that is produced especially for liquid feed suspensions.

### Organic Listing

MIN-AD has been listed by the Organic Materials Review Institute (OMRI) for use in production of organic food and fiber. Mining is carried out with a special mineral oil based explosive instead of more typical fuel oil explosives, which eliminates palatability or contamination concerns.

### Typical Analysis

Calcium Carbonate (CaCO <sub>3</sub> ) .....	54%
Magnesium Carbonate (MgCO <sub>3</sub> ) .....	43%
Calcium (Ca) .....	21%
Magnesium (Mg) .....	12%
Color.....	Light gray
Bulk density, Standard .....	~ 115 lbs/ft <sup>3</sup>
Bulk density, Fines .....	~ 100 lbs/ft <sup>3</sup>

### Availability

Bulk rail (bottom dump) and bulk truck (bottom dump & pneumatic).

MIN-AD is also available in 50 lb English language bags, 25 kg Spanish bags, or super sacks (~2400 lbs/sack for Standard, ~2000 lbs/sack for Fines).

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## **Use Information**

The amount of MIN-AD fed varies with application, ration composition, and production levels. Beef cattle can be fed at about 3 ounces per head per day or 0.75% - 1.00% of the total ration on a dry matter basis. It can effectively replace other Mg and Ca sources.

Dairy cattle can be fed at the rate of 3-6 ounces per head per day, depending on whether it is fed in combination with other buffer products. MIN-AD fed in combination with traditional dairy buffers provides effective protection against low rumen pH and enhances microbial growth.

MIN-AD personnel, test data, and technical data bulletins are available to help users determine specific use levels. Contact your nutritionist for a recommendation specific to your application.

## **Storage**

Store in a dry place to maintain free-flowing properties.

Flow properties report for storage bins available upon request.

## **Labeling & Safety**

MIN-AD is labeled Magnesium Limestone in accordance with the definitions and standards of the Association of American Feed Control Officials (57.11 AAFCO, IFN 6-06-934).

A Material Safety Data Sheet (MSDS) is available upon request.

## **Ordering & Information**

For additional product information or customer service, call 1-888-848-8178 or look up our website at [www.min-ad.com](http://www.min-ad.com).

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