

# PRODUCT SPECIFICATION SHEET

## PRODUCT DESCRIPTION

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 as a mineral source and to support performance, microbial growth, and proper digestive tract pH. A unique combination of chemical properties, total acid consuming capacity, and rate of solubility helps it to support optimum digestive tract conditions. MIN-AD can be used in dry supplements or buffer packs, either as a loose mix or in pellets. It can also be fed free choice. An ultra-fine form of MIN-AD can be used for liquid feed suspensions.

## 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> |

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.



## INGREDIENTS AND LABELING

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).

## FEEDING DIRECTIONS

The amount of MIN-AD fed varies with application, ration composition, and production levels. Beef cattle can be fed at about 3 oz/ head/ 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 oz/ head/ day, depending on whether it is fed in combination with other buffer products. Contact your nutritionist for a recommendation specific to your application.

## STORAGE & HANDLING

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

## 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).

## ORDERING AND TECHNICAL INFORMATION

For Customer Service and orders:  
 Call Toll Free: (800) 888-5688 or Direct: (410) 822-0429  
 or email [orders@papillon-ag.com](mailto:orders@papillon-ag.com)

