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MarsSyt
An Agricultural Company
Since 1995

COW-MAG is a pulverized calcium/magnesium supplement which is mined, processed, and bagged in Pennsylvania.

DAIRY CATTLE

FEATURES AND BENEFITS

COW-MAG is a highly bioavailable source of Calcium (Ca) and Magnesium (Mg).

Supports a stable ruminal pH

- **COW-MAG** is an alkalizer (*an agent that counteracts or neutralizes acidity*) and can replace 50% of normal bicarbonate level.

Reduces variability and improves bioavailability

- Bioavailability of Mag Ox can vary from 28-50% depending on particle size, source and calcination temperature (NRC,2001; Henry and Benz, 1995).
- **COW-MAG** is a very cost effective and consistent source of Magnesium compared to Mag Ox or other magnesium sources.
- **COW-MAG** will "least-cost" to fill the magnesium requirement.
- **COW-MAG** will, at the same time, fill most of the calcium requirement.

FEEDING DIRECTIONS

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.

Consult your nutritionist for a specific recommendation.

Packaging

Bulk, 50 lb bags, and 2,000 lb totes

NUTRIENT PROFILE

Calcium	21% to 25% guarantee
Magnesium	12% guarantee



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COW-MAG is highly bioavailable

When comparing products, particles per gram, particle size, and surface area are important factors to consider. Products with a smaller particle size have a larger surface area which results in increased absorption, faster speed of absorption, and overall bioavailability.

An in-house trial was conducted to compare the surface area, particles per gram, and mean particle size of **COW-MAG** to a competitive product.

Due to **COW-MAG**'s smaller particle size (*Figure 1*), there are more than twice the number of particles per gram (*Figure 2*), and nearly three times the surface area (*Figure 3*), resulting in higher bioavailability than the competitive product.



Fig. 1 Mean Particle Size (Microns)

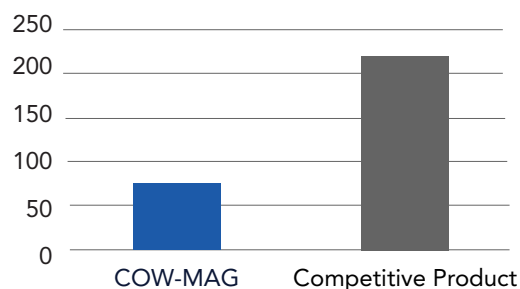


Fig. 2: Particles per Gram

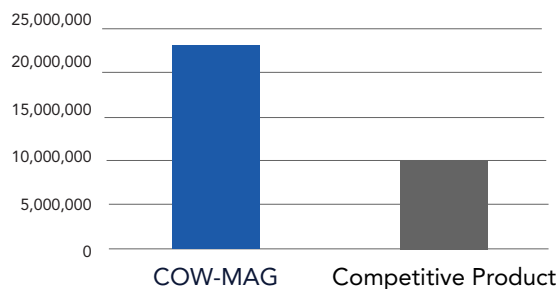
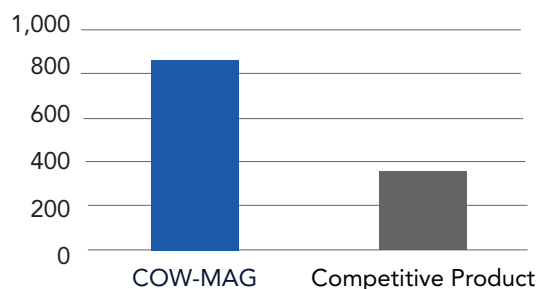


Fig. 3: Surface Area cm^2/g



In house trial analyzed at Cumberland Valley Analytical Lab, August 2019.

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