

TECHNICAL BULLETIN

DAIRY

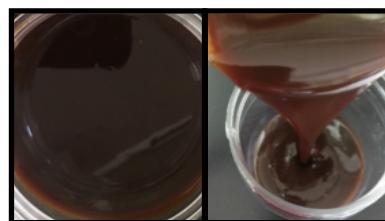


QLF ANIONIC LIQUID SUPPLEMENTS

Anionic supplements are valued in dry cow feeding programs to “acidify” diets and deliver negatively charged chloride ions, enhancing calcium metabolism in the transition period. Improved calcium metabolism can help increase dry matter intake and milk production post-calving. Also, incidence of milk fever and udder edema may be reduced when anionic dry cow diets are fed.

While dry anionic supplements provide important benefits to dry cow feeding programs, they can have several disadvantages:

- Low Palatability
- Separating out from coarse, dry rations
- Shrink
- Inefficient handling
- Economics



Molasses-based liquid supplements offer a convenient, palatable method to deliver chloride anion to dry cow diets. Due to their fluid, and sticky nature, liquid supplements deliver and distribute chloride ion throughout the dry cow ration. Supplements are stored in closed handling systems, minimizing shrink, and liquid supplement added to the TMR are precisely measured for accurate daily nutrient delivery. Use of a molasses-based liquid supplement in dry cow TMR reduces sorting, lessens waste, and improves intakes of long particles. Minimizing sorting is key to consistent intake of all dietary nutrients, including energy, and helps improve the efficiency of moderate-energy dry cow diets.

Anionic molasses-based liquid supplements have a simple composition, with options to deliver the following nutrients:

- Dry Matter
- Protein
- Calcium
- Sugar
- Chloride
- Magnesium

Sugar in these supplements is provided by cane molasses and condensed whey. Chloride anions are delivered through liquid calcium and magnesium chlorides.

These supplements have unique nutritional and physical characteristics, compared to traditional molasses-based liquid supplements. Due to high levels of calcium and magnesium chlorides, anionic liquid supplements are very thin, and daily recirculation is recommended to help minimize separation/ stratification. Inventory turnover of ≤60 days is recommended. Anionic liquid supplements are formulated for year-round handling on the farm. It is recommended to store and handle this product within a “QLF 365 Handling System” to maximize handling efficiency. No “cold weather handling adds” may be included in anionic liquid supplements due to their unique chemistry. Anionic molasses-based liquid supplements are available from the following manufacturing plants: Clovis, NM, Twin Falls, ID, Johnstown, CO, Billings, MT, Menomonie, WI and Comstock Park, MI. Please contact your QLF Representative for additional information regarding anionic molasses-based liquid supplements.

