



Administration

TRANSITION™ Calcium Boluses

- 176 gram (44 g Ca)

TRANSITION™ Calcium Boluses are to be administered immediately after calving, and again 12 hours after calving.

176 g Bolus	
Immediately after calving	1 bolus
12 hours after first administration	1 bolus

All TRANSITION™ Calcium Boluses are packed in individual inserts.

Please use product immediately after insert removal.

1. Insert flat end of the bolus snugly into an appropriate bolus gun (V-Grip™ Bolus Gun from Genesis Instruments recommended)
2. Point rounded end toward the cow
3. Insert bolus gun into the back of cow's mouth and deposit the bolus, allowing the animal to swallow
4. After administration, allow water access



Do not administer with excessive force, nor administer to cows that are lying down, aggressive cows or cows without a normal swallowing reflex.

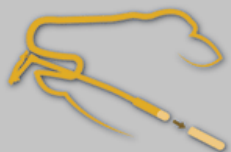
1.



2.



3.



4.



FRESHEN. REBOUND.



TRANSITION™ Calcium Bolus

Oral Supplement For Dairy Cows

Transition cows demand both immediate and sustained calcium for metabolic support during freshening. You demand a quick solution that is easy to administer and has no withholding period.

Calculate the Cost of Milk Fever in your Herd

Whilst milk fever represents only a fraction of the total losses associated with the transition period, it does provide some compelling figures for change.

In New Zealand 2% of cows go down with milk fever a year, but this may be as much as 30% on individual farms.

On a 550 cow farm, the direct cost alone can be approximately \$44,000*

*assuming \$8,000 per 100 cows
Source Dairy NZ Technical Series 2012



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TRANSITION™ Calcium Bolus

Oral Supplement For Dairy Cows



Choose the calcium supplement specifically formulated for transition dairy cows. Choose TRANSITION™ Calcium Boluses.

TRANSITION™ Calcium Boluses are the first product in a line of nutritional supplements for close up and transition dairy cows. TRANSITION™ Calcium Boluses are easy to administer, safe for the animal and help prepare cows to enter the milking herd in a normal time frame.

TRANSITION™ Calcium Boluses include three proven sources of calcium for immediate and sustained release:

- Calcium chloride
- Calcium propionate
- Calcium carbonate

Vitamin D3 is also introduced to help the absorption and metabolism of calcium and phosphorus.

Cutting-Edge Bolus Technology

TRANSITION™ Calcium Boluses feature revolutionary technology that offers significant advantages when compared to other supplements. Using a patented process, high concentrations of nutrients are liquefied, hardened and compressed into a single, quick dissolution bolus.

TRANSITION™ Calcium Bolus application advantages

- No sharp edges or surfaces
- No palatability issues that are common with drenches or pastes
- No withholding period



Proven Calcium Benefits

When it comes to high-risk transition cows, preventing complications is far more manageable and cost effective than treatment.

TRANSITION™ Calcium Boluses contain both immediate and sustained release calcium to help support normal nutritional levels. This means cows receive supplemental calcium when they need it the most.

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Immediate & Sustained Delivery

When considering oral calcium supplements to help maintain normal blood calcium concentrations, it is critical to have a form that will be absorbed quickly enough to raise blood calcium to counteract the hypocalcemia that occurs in most cows at freshening.

Both the calcium chloride and the calcium propionate in Transition boluses are very soluble in water, providing calcium ions that will be quickly absorbed across the rumen wall within 3 hours following administration.

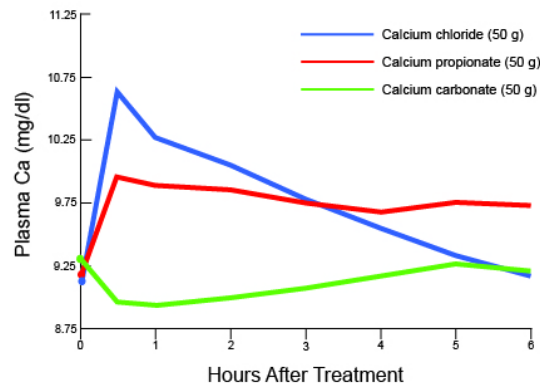
Calcium carbonate is poorly soluble in water—it only becomes available for absorption after reaching the hydrochloric acid within the abomasum. It can supply calcium for absorption in the small intestine over the next 16-36 hrs.

Figure 1 demonstrates how calcium chloride and calcium propionate, but not calcium carbonate can increase blood calcium within a few hours of administration. It is also important to use a bolus that is coated with fat to lubricate the passage of the bolus down the esophagus.

- Calcium chloride: Offers an immediate release, but levels drop over time.
- Calcium propionate: Offers a moderate immediate release, but maintains these levels longer than calcium chloride.
- Calcium carbonate: Offers a low immediate release, but calcium levels increase over time.

This is how **TRANSITION™** Calcium Boluses are able to deliver more available calcium than other sources – transition cows receive a high dose of calcium that goes to work immediately upon release and sustains its performance over a long period of time.

Immediate and sustained effects of orally-administered calcium on transition cows



1993, J.P. Goff & R.L. Horst, "Oral Administration of Calcium Salts for Treatment of Hypocalcaemia in Cattle." USDA Agriculture Research Service.