

CAL MAG IN FEED v GRASS TETANY

Grass Tetany

Grass Tetany is a deficiency of Magnesium common in lactating cows and ewes on Spring and Autumn grass. Standard preventative Magnesium supplementation recommendations are:-

- Cows: 28g/day (1oz) to help prevent Grass Tetany on pasture.
- Ewes: 5g/day, to help prevent Grass Tetany on pasture.

Cal Mag

Cal Mag = **Calcined Magnesite** = Magnesium Oxide = MgO = 50% Mg.

Cal Mag supplies Magnesium (Mg) to help prevent Grass Tetany caused by Mg deficiency.

"Calcined" refers to the manufacturing process, not Calcium. Cal Mag contains no Calcium.

Feed-grade Cal Mag is 50% Mg and is the standard for feeding recommendations:-

- **Cows:** 56g/day (2oz) to help prevent Grass Tetany on pasture.
In challenging situations cows may need 4oz/day.
Dairy feeds with Cal Mag are not suitable for other stock.
Pasture scour: 6oz/day is required to cause scour. Scouring on grass is usually excess grass protein.
- **Ewes:** 10g/day, to help prevent Grass Tetany on pasture.
Cal Mag should not be fed to dry sheep particularly rams, to avoid kidney stones (Urinary Calculi).

Sweetened Cal Mag is diluted to 33% Mg to increase palatability. 3oz replaces 2oz feed-grade Cal Mag.

Dusting Cal Mag (50% Mg) - spread **7.5oz/cow/day (215g/hd)** on the daily paddock, but repeat after heavy rain.

Gain Dairy Feeds – Cal Mag levels

Gain high-protein Winter feeds: 2oz/4.5kg. (2oz/10 lbs)

Gain low-protein Pasture feeds: 2oz/2.5kg. (2oz/5.5lbs) Feeding rate 2.5-3.75kg/hd/day.

Gain Pasture Micro Nuts: 2oz/1.5kg. (2oz/3.3lbs). Feeding rate 1.5-2.0kg/hd/day.

Gain Sheep Feeds – Cal Mag levels

Hi Cal Mag: Ewe Mag Nuts (10g/0.75kg.)

Low Cal Mag: Ewe Master Nuts (10g/1.5kg.).

No Cal Mag: Super Ewe Nuts, Prime Ewe & Lamb Nuts, Mega Ewe Blend, Sheep Blend.

Super Ewe Nuts and Prime Ewe & Lamb Nuts are suitable where lambs eat along with ewes at feeding times.

CAL MAG		
Mixing rate to provide 28gMg/cow/day		
Concentrate Daily Feed Rate kg (lbs)	Feed-grade Cal Mag (50% Mg) kg/tonne	Sweetened Cal Mag (33% Mg) kg/tonne
9.0 (20)	6.25	10
7.0 (15)		12.5
4.5 (10)	12.5	20
3.5 (8)		25
2.25 (5)	25	37.5
1.75 (4)		50
1.1 (2.5)	50	75