

Technical Information

Bolifor® Mag33 & Bolifor® MGP+

Hypomagnesaemia - Grass Staggers or Grass Tetany

CLINICAL

(obvious symptoms)

- Sometimes signs develop or are noticed before death - increased nervousness, body tremor, walking with stiff legs, collapse with paddling and the head held back.
- Movement is stiff, like walking on stilts, and cows stagger when forced to move quickly.
- Death results from a "Tetany" where the muscles contract uncontrollably including the heart. Often the only sign is sudden death.
- Rapid loss in body condition

SUB-CLINICAL

(underlying issues- no directly noticeable or attributable symptoms)

- No symptoms – sudden death only
- Cows suffer loss of appetite
- Reduced milk production & Reduced body condition
- In dairy cows it is common for a mild form of the condition to develop. The only signs are lowered milk production, weight loss and increased nervousness, which may make the cow seem 'difficult' to milk.
- It's not unusual for affected cows to be extremely aggressive.

Recommended Use/Applications

Bolifor® Mag33 & MGP+ are unique products designed to overcome the palatability problems of conventional magnesium sources ensuring the daily required intake of magnesium.

Both Bolifor® Mag33 & MGP+ are well suited for all diets where extra magnesium (& phosphorus) are needed. It can be incorporated into any feeding system such as compound feed, mineral supplements, inclusion with silage or hay or use for ad lib free access minerals.

BOLIFOR® MAG33

Bolifor® Mag33 appears as off-white granules. The granules are practically odourless and have a slight salty taste which effectively masks the bitter taste of MgO.

Special advantages

- Granulated and free flowing which makes the product less dusty and easy to handle
- Non-irritant
- Excellent palatability
- Good solubility to provide bioavailable Mg and P
- Provides high quality Mg without oversupplying P
- Contains sodium from NaCl
- Non-irritant to skin and mucosae. No health hazards when handled
- Minimum level of undesirable substances
- Consistent quality

BOLIFOR® MGP+

Bolifor® MGP+ is a unique & smart combination of the essential minerals Phosphorus + Magnesium.

Special advantages

- Granulated and free flowing which make the product less dusty and easier to handle than Magnesium Oxide (MgO) and DCP
- Non-irritant
- Highly palatable compared to MgO & DCP and does not have a laxative effect
- Considerably improved relative water solubility of P
- Superior chemical solubility gives Bolifor® MGP+ an excellent biological availability for both Mg and P
- Source of sulphur for rumen microflora
- Minimum level of undesirable substances
- Consistent quality

Quality of Bolifor® Mag33 & MGP+

All raw materials, of only mineral origin, are carefully selected and continuously monitored for nutrient content, levels of undesirable substances and reactivity. The strictly controlled reaction produces a dust-free, easily dispersed granule.



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Questions & Answers

What are Bolifor® Mag33 & Bolifor® MGP+?

Bolifor® Mag33 is a unique, superior quality source of magnesium in granule form, and is coated with sodium chloride. Bolifor® Mag33 is a high quality alternative to magnesium oxide and other sources of magnesium used on New Zealand farms.

Bolifor® MGP+ - Magnesium Phosphate is a high quality source of magnesium and phosphorus in granule form.

How do I offer Bolifor® Mag33 or Bolifor® MGP+ to my cows?

Bolifor® Mag33 is palatable, therefore cattle will eat it directly. Bolifor® MGP+ is neutral in taste, therefore cattle won't be averse to eating it when combined with other feed sources. However BEC Feed Solutions recommend that the daily dose is incorporated with feed i.e., blended with silage, mixed with a meal/blend or similar. This is to facilitate with even uptake across the herd and to ensure each cow receives the required daily dose.

Can I dust Bolifor® Mag33 or Bolifor® MGP+ on pasture?

Bolifor® Mag33 & Bolifor® MGP+ are not designed to be dusted on pasture – both granule in form Mag33 is granular in form and will not settle well on pasture. Mag33 is highly palatable (as it is coated in salt) and is therefore ideal to incorporate into daily feed rations.

What are the feed rates of Bolifor® Mag33 & Bolifor® MGP+?

	MAG33	MGP+
Jersey (15g of elemental Magnesium)	70g	80g
Friesian (20g of elemental Magnesium)	93g	107g

Amounts are estimates based on Dairy NZ supplementary magnesium requirements. Requirements may vary depending on many factors including regimes, herd age, production stage. Follow the above recommended daily dose rates or as per advice from a nutritionist, veterinarian or suitably qualified professional.

What are the other mineral elements of Bolifor® Mag33 & Bolifor®MGP+?

	%		Elements in recommended dose	
	MAG33	MGP+	Mag33 93g/cow/day for Friesian cattle	MGP+ 107g/cow/day for Friesian cattle
Magnesium	33	24	20g	20g
Phosphorus	2.7	13.5	2.5g	13.9g
Sulphur	0	2	0	2.1g
Calcium	1.7	1	1.6g	1.1g
Sodium	4.5	0	4.2g	0
Chlorine	7	0	6.5g	0

Do you recommend using other sources of magnesium whilst using Bolifor® Mag33 or Bolifor® MGP+?

If you deliver the recommended daily rates of Bolifor® as stated above to your cattle, no further supplementation of magnesium is required. Please consult your veterinarian or nutritionist for further guidance on the nutritional requirements for your herd.

