

# MAGNESIUM SULPHATE



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EPSOM SALTS

## SUMMARY:

Magnesium Sulphate, or, more commonly, Epsom Salts is a highly soluble source of Magnesium.

## CONTAINS:

Magnesium [Mg] **10%**

## DOSE RATE:

As directed

## Magnesium Sulphate

Magnesium Sulphate, or, more commonly, Epsom Salts is a highly soluble source of Magnesium.

The elemental percentage can vary between 9.6% and 10%. Its relative bioavailability is high and it is very water soluble. The solubility level allows Magnesium Sulphate to be used in different formulations, including, licks, drenches, salt blocks, and total mixed ration grain mixes. It is also often used with molasses as a quick energy/magnesium supplement. However, care needs to be taken with home remedies, especially mixing with other ingredients when the accumulative amount of elemental magnesium is not known. For example, molasses contains 4.6 grams of Magnesium per kg of dry matter and can be a wonderful support for magnesium products if animal requirements are followed.

Magnesium Sulphate has a quick response time when drenched, for sheep and cattle, a soluble carbohydrate is also recommended.

## CLINICAL SIGNS OF PROBLEMS

Mg uptake can be affected during cold periods when natural light is affected (short cloudy days). Often we see Grass Tetany in Cattle as an occurring problem.

Livestock are usually grazing lush grass dominant pasture, or lush cereal crops, Cold, wet windy weather.

Heavy use of Potash or Nitrogen on pastures, Stock recently moved to fresh paddock, Animals either over fat or rapid weight loss.

## FUNCTION OF MAGNESIUM

Bone and teeth integrity, Involved in the bodies hormonal activity, essential for cell respiration, carbohydrate, protein and fat metabolism. Neuromuscular activity.

Magnesium Increases rumen Ph and can help increase milk yield and butter fats. Relaxes nerve impulses, improves smooth muscle function, appears to have a role in vitamin D activation. Absorption is reduced by high levels of Ca, P, K, Fe, fats, oxalic acid and phytate.

Absorption occurs through the digestive tract and endogenous secretions that can be resorbed.

Absorption in Ruminants is improved with more readily degradable carbohydrates.

## PACK SIZES :

2 kg, 5 kg, 25 kg bags.

This product does not contain restricted animal material.

Store in a cool dry place, nil withholding period.