



### Minerals:

Besides carbohydrates, fats, proteins and vitamins, Trace Minerals form an essential part of the animals nutritional requirements.

They are as important as amino acids and vitamins in maintenance of life, well-being and productivity of ruminants. Minerals in combination with proteins, lipids, and other substances enter the skeletal (bones) there by enhancing rigidity and strength required to support the soft tissues. Minerals take part in maintenance of osmotic pressure and acid-base balance (pH) & aid in the activation of many enzymes of the body.

At least 13 minerals are required for the best health and productivity of animals. Minerals that perform structural or osmotic function are required in relatively large amounts in the diet, and are referred to as 'macro-minerals'.

### Macro-minerals

- Calcium
- Sodium
- Chlorium
- Phosphorus
- Potassium
- Magnesium

### Micro-nutrients/Trace minerals:

Minerals that are required in relatively low amounts in the diet are referred to as 'micro-nutrients or trace minerals'. These include :

- Copper
- Iron
- Selenium
- Iodine
- Manganese
- Zinc

Analysis of each minerals has revealed that major portions of calcium, phosphorus, magnesium and zinc are present in bones. Other essential elements are distributed largely in muscles, other soft tissues and body fluids. Besides this trace minerals play critical roles in the development and function of the immune system. It is therefore, imperative that trace mineral status be maintained to insure sufficient stores are available for optimal animal performance or when animals become diseased or stressed. Enzymes are natural proteinous molecules which act as catalyst with great specificity in different chemical reactions biocatalyst. Enzymes unlock trapped nutrients and improve the nutritive value and efficiency of the feed

ingested thereby enhancing the proper digestibility mechanism and when in combination with essential trace minerals and vitamins, the blend plays a vital role in all major functions of the body like metabolic processes, hormone synthesis, blood and tissue formulation.

Animal feed is largely deficient in vitamins. The feed is therefore fortified by commercially available vitamins. Vitamins are neither sources of energy nor do they serve as building blocks. But they are absolutely essential for normal function and maintenance of health. They are effective in minute quantities. They act mainly as regulators of metabolic processes and play a role in energy transformations, usually acting as co-enzymes in enzymatic reactions.

ADDMin is a blend of minerals, enzymes and vitamins in a balanced form.

### Indications :

1. Delayed maturity
2. Anoestrus
3. Repeat Breeding
4. Non optimal functioning of reproductive system
5. Reduced production and indigestion
6. Sub-Optimum Immuno-Competance
7. Unhealthy skin and skeletal system

**Dosage:** 500 g to 1 Kg per Ton of Feed

**Shelf Life:** ADDMin is stable for 2 years from the date of manufacture.

**Storage:** ADDMin should be stored in a cool dry place away from sunlight. Keep the container closed when not in use.

**Packaging:** ADDMin is available in 25 Kg Paper bags

**Compatibility:** ADDMin is compatible for use with all commonly used ingredients in feed and premixes.

**Enquiries:** We welcome your enquiries for specification, application assistance or purchase at the address mentioned below.

The information and data contained herein has been compiled based on information we believe reliable. Users should thoroughly test all applications and independently conclude satisfactory performance before commercializations, as these recommendations are non-binding. User's assume all liabilities for use of the Products. We are not liable for any advice which we may have failed to give.

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