# MinLic®

## A Free-Choice Supplement for Cattle on Pasture

### THE PRODUCT

**MinLic®** supplement is specially formulated to enrich the diet of cattle without the added cost of supplemental protein. This unique supplement is second to none when compared to other low-moisture blocks. This block is the product of a state-of-the-art patented process that provides a unique 24-hour feeding system. **MinLic®** is an exceptionally dense block that will give you the most for your money. Here's how:

- ✔ **Economical:** A low feeding rate of 0.25 to 0.50 lb/head daily means lower feeding costs (on a per head per day basis).
- ✔ **High Mineral Fortification:** This supplement is mineral and vitamin fortified which means that additional minerals do not need to be added to the diet, resulting in significant cost savings.
- ✔ **Weather Resistant:** The patented, "continuous flow" system creates a low-moisture, exceptionally dense block that maintains its integrity even in hot, humid weather or precipitation.
- ✔ **Minimal Labor: MinLic®** is easy to feed. Simply place the block in areas of easy access to cattle.
- ✔ **Returnable Steel Tubs** are self contained supplement feeders that are environmentally friendly and eliminate the expense of additional feeding equipment.

### MAGNESIUM ADDED

**MinLic®** offers the benefit of added magnesium in a highly palatable supplement that cattle will readily consume. This supplement contains a minimum of 3% magnesium.

Magnesium is needed for activation of enzymes, nerve transmission, skeletal tissue, bone formation and milk production. A deficiency of magnesium may result in the following symptoms:

- ✔ **Irritability**
- ✔ **Increased excitability**
- ✔ **Grass Tetany**

**MinLic®** is recommended for supplementing diets requiring magnesium and other minerals without added protein or fat.

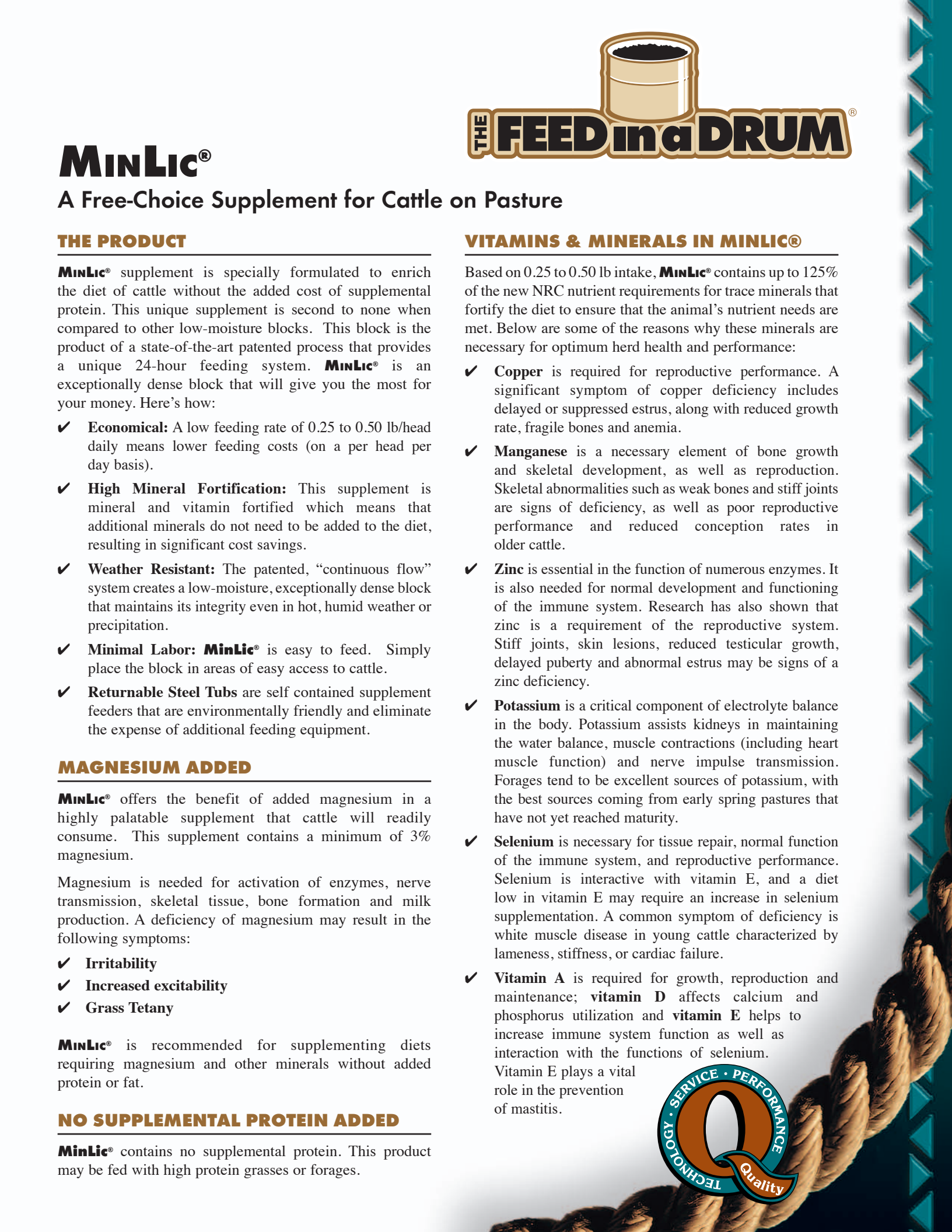
### NO SUPPLEMENTAL PROTEIN ADDED

**MinLic®** contains no supplemental protein. This product may be fed with high protein grasses or forages.

### VITAMINS & MINERALS IN MINLIC®

Based on 0.25 to 0.50 lb intake, **MinLic®** contains up to 125% of the new NRC nutrient requirements for trace minerals that fortify the diet to ensure that the animal's nutrient needs are met. Below are some of the reasons why these minerals are necessary for optimum herd health and performance:

- ✔ **Copper** is required for reproductive performance. A significant symptom of copper deficiency includes delayed or suppressed estrus, along with reduced growth rate, fragile bones and anemia.
- ✔ **Manganese** is a necessary element of bone growth and skeletal development, as well as reproduction. Skeletal abnormalities such as weak bones and stiff joints are signs of deficiency, as well as poor reproductive performance and reduced conception rates in older cattle.
- ✔ **Zinc** is essential in the function of numerous enzymes. It is also needed for normal development and functioning of the immune system. Research has also shown that zinc is a requirement of the reproductive system. Stiff joints, skin lesions, reduced testicular growth, delayed puberty and abnormal estrus may be signs of a zinc deficiency.
- ✔ **Potassium** is a critical component of electrolyte balance in the body. Potassium assists kidneys in maintaining the water balance, muscle contractions (including heart muscle function) and nerve impulse transmission. Forages tend to be excellent sources of potassium, with the best sources coming from early spring pastures that have not yet reached maturity.
- ✔ **Selenium** is necessary for tissue repair, normal function of the immune system, and reproductive performance. Selenium is interactive with vitamin E, and a diet low in vitamin E may require an increase in selenium supplementation. A common symptom of deficiency is white muscle disease in young cattle characterized by lameness, stiffness, or cardiac failure.
- ✔ **Vitamin A** is required for growth, reproduction and maintenance; **vitamin D** affects calcium and phosphorus utilization and **vitamin E** helps to increase immune system function as well as interaction with the functions of selenium. Vitamin E plays a vital role in the prevention of mastitis.

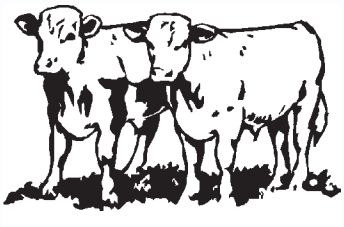


## FEEDING DIRECTIONS


### MinLic®

Provide free choice as a supplement to pasture cattle at the rate of one block for each 15 to 25 head. Initially place blocks in grazing areas near locations frequented by livestock, such as watering locations, shade or loafing areas. Once cattle become acclimated to the product strategically distribute blocks throughout grazing area. Cattle normally consume approximately ¼ to ½ pound per head daily. Consumption may vary depending on climate, grazing conditions, condition of livestock and/or availability of other feeds. In situations where climate and/or other factors result in less than ¼ pound per head daily, intake of supplement can be increased by increasing the number of blocks per pasture.

Provide access to fresh water and free-choice salt at all times.



For other **THE FEED IN A DRUM®** feeding options for cattle on pasture, feed **Natural 20MF** or **Range 30MF** depending on forage quality and required protein levels.

## GUARANTEED ANALYSIS

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|---|---|
| Calcium, minimum | 5.0% |
| Calcium, maximum | 6.0% |
| Phosphorus, minimum | 4.0% |
| Potassium, minimum | 2.5% |
| Magnesium, minimum | 3.0% |
| Cobalt, minimum | 10.0 ppm |
| Copper, minimum | 850 ppm |
| Iodine, minimum | 42 ppm |
| Manganese, minimum | 3,400 ppm |
| Selenium, minimum | 13.2 ppm |
| Zinc, minimum | 3,400 ppm |
| Vitamin A, minimum | 120,000 IU/lb |
| Vitamin D, minimum | 12,000 IU/lb |
| Vitamin E, minimum | 120 IU/lb |

Manufactured By:

**Animal Feed Supplement, Inc.**
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**CAUTION: Use as directed. Observe livestock and monitor intake daily.**

04.11.2012