

# Pro-Phos 10 Copper Mineral

**Type of Feed:** Complete mineral      **Form of Feed:** Meal

## General Description:

Pro-Phos 10 Copper Mineral is recommended for free-choice feeding to beef cows and calves during extreme copper deficiency situations or in the presence of antagonizing minerals such as iron, sulfur or molybdenum

LAND O LAKES®  
**PRO-PHOS 10 COPPER MINERAL**  
 FOR PASTURED CATTLE

### GUARANTEED ANALYSIS

Calcium (Ca), (Min).....	13.5 %
Calcium (Ca), (Max).....	15.5 %
Phosphorus (P), (Min).....	10.0 %
Salt (NaCl), (Min).....	12.0 %
Salt (NaCl), (Max).....	14.0 %
Magnesium (Mg), (Min).....	2.0 %
Potassium (K), (Min).....	1.0 %
Zinc (Zn), ppm, (Min).....	7,500
Manganese (Mn), ppm, (Min).....	2,500
Copper (Cu), ppm, (Min).....	2,500
Iodine (I), ppm, (Min).....	130
Selenium (Se), ppm, (Min).....	22.0
Vitamin A, I.U./lb, (Min).....	200,000
Vitamin D <sub>3</sub> , I.U./lb, (Min).....	12,000
Vitamin E, I.U./lb, (Min).....	60

### INGREDIENTS

Monocalcium/Dicalcium Phosphate, Calcium Carbonate, Salt, Distillers Dried Grains with Solubles, Yeast Culture, Molasses Products, Magnesium Oxide, Potassium Chloride, Sodium Selenite, Zinc Sulfate, Manganese Sulfate, Iron Oxide, Basic Copper Chloride, Ethylenediamine Dihydriodide, Cobalt Carbonate, Vitamin A Supplement, Vitamin D3 Supplement, Vitamin E Supplement, Mineral Oil, Natural and Artificial Flavor

### DIRECTIONS FOR USE

PRO-PHOS 10 COPPER MINERAL contains copper from basic copper chloride and copper sulfate. This mineral is recommended for free-choice or force feeding to beef cows and calves during extreme copper deficiency situations or in the presence of antagonizing minerals such as iron, sulfur or molybdenum. Optimum intake is 2 to 4 ounces per head daily. Maximum intake is 4.8 oz (0.3 lb) per head daily.

To assure adequate intake, remove all other salt and mineral products. Have an adequate water supply available and place the mineral feeder near the water supply or in the animals' loafing areas. Put out fresh mineral at least once a week. An upright covered mineral feeder is recommended to protect the mineral from weather.

**DO NOT FEED TO SHEEP DUE TO HIGH LEVELS OF SUPPLEMENTAL COPPER.**

**FERMENTATION FORTIFIED WITH DIAMOND V XP™ YEAST CULTURE**

**Product Features:**

A 10% intermediate phosphorus source with complete vitamin and trace mineral fortification

Provides optimum levels of trace minerals at a 3 ounce consumption rate

Contains distillers dried grains with solubles

Contains Diamond V's "XP" yeast culture for improved mineral palatability

Contains higher copper (2500 ppm) and zinc (7500 ppm) levels

**Product Benefits:**

Excellent calving to breeding mineral for producers on a year-round mineral program. Provides necessary phosphorus for fetal development and reproduction. (Lactation is the cow's highest requirement for Phos)

Aids in disease prevention, improves fertility, and promotes fetal development

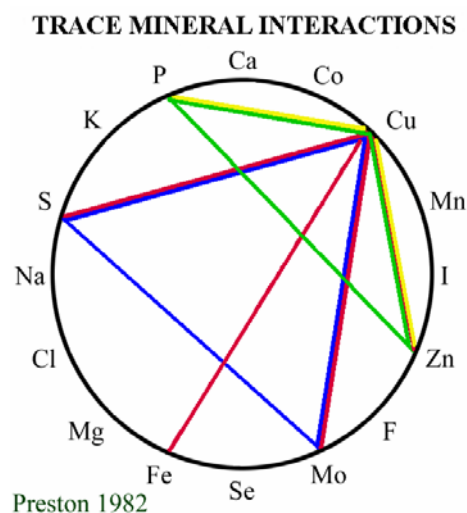
Improved palatability and more consistent intake

Better palatability helps maintain consistent feed intake.

For areas with chronic copper deficiencies or areas with copper antagonists (high environmental molybdenum, sulfur or iron).while still maintaining the proper Zinc:Copper ratio

**Usage Tips**

*Copper (CU)* is involved in bone and blood formation, proper immune system function, hair and skin pigmentation and nerve function. High dietary levels of iron, sulfur, molybdenum and zinc negatively impact copper absorption and utilization (see figure below). Animals which are copper deficient may have scours, pale nasal and mouth membranes, or anemia. They may also have rough hair coats which may appear slightly orange on red cattle and gray on black cattle and be slightly curled on the ends. Another common symptom of copper deficiency is that animals may be slow to shed their winter coats (feeding endophyte infected fescue may create the same slow shed symptoms). These animals may also look gaunt, suffer with swollen joints and have abnormal hoof growth. Copper deficient animals may not grow to their genetic potential. Mature animals may lose weight. Animals which are slightly copper deficient (showing no obvious signs of deficiency) may also be more prone to health problems since copper is involved in keeping the immune system functioning properly.



*Zinc (ZN)* is an essential component of many enzymes and hormones. It plays an important role in the metabolism of proteins, fats and carbohydrates, making it vital to good growth rates. Zinc is involved in the proper function of the immune system and is needed to maintain healthy hair, skin and hooves. Zinc deficiency in growing animals is characterized by listlessness, decreased rate of weight gain; lower feed consumption and feed efficiency. Decreased testicular growth or poor sperm quality is to be expected in zinc deficient bulls. Zinc's role in skin integrity leads to the deficiency symptoms of swollen feet with open, scaly

lesions; changes in hair coat color/texture; a general dermatitis on the neck, head and legs; and failure of wounds to heal. Zinc deficiency can be detrimental to female reproduction. Inadequate zinc during gestation may result in abortion, fetal mummification or lower birth weights.

Pro-Phos 10 CU Minerals are recommended for feeding to all cattle on diets composed largely of grass hay or for cattle grazing low quality range or grass pastures in areas of known copper deficiencies or known copper antagonists.

Optimum intake of Pro-Phos 10 CU Mineral is 2-4 oz. per head daily. Every ounce of Pro-Phos 10 CU delivers 71 mg copper and 213 mg zinc. To assure adequate mineral intake, **remove all other salt and mineral products**. Have an adequate water supply available and place the mineral feeder near the water supply or in the animals' loafing areas. Put out fresh mineral at least once a week. An upright covered mineral feeder is recommended to protect the mineral.

**CAUTION:** Do not feed to sheep or allow sheep access to this mineral because of the high level of supplemental copper.

### **Key Points**

1. Excellent phosphorus source when demand is greatest (calving to breeding) and producers are following a year-round mineral program.
2. Flexible to meet producer's needs without overfeeding phosphorus when cows are consuming medium- to high-quality forages.
3. Complete macro mineral, trace mineral and vitamin supplement.
4. Contains high copper and zinc levels.