

Pro-Phos 12 CU AU 3500 Mineral

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

General Description:

Pro-Phos 12 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.

LAND O LAKES®
PRO-PHOS 12 COPPER MINERAL AU-3500

MEDICATED

FOR BEEF CATTLE, GROWING DAIRY HEIFERS AND NON-LACTATING DAIRY CATTLE

For control of bacterial pneumonia associated with shipping fever complex caused by *Pasteurella spp.* and for control of active infection of anaplasmosis caused by *Anaplasma marginale* susceptible to chlortetracycline.

ACTIVE DRUG INGREDIENT

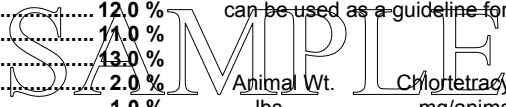
Chlortetracycline 1.75 g/lb

For control of anaplasmosis: Feed 0.2 lb/head/day of this feed to beef or non-lactating dairy cattle weighing up to 700 lbs. to provide 350 mg of chlortetracycline.

GUARANTEED ANALYSIS

Calcium (Ca), (Min)..... 11.0 %
 Calcium (Ca), (Max)..... 13.0 %
 Phosphorus (P), (Min)..... 12.0 %
 Salt (NaCl), (Min)..... 11.0 %
 Salt (NaCl), (Max)..... 13.0 %
 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)..... 19.0
 Vitamin A, I.U./lb, (Min)..... 200,000
 Vitamin D₃, I.U./lb, (Min)..... 12,000
 Vitamin E, I.U./lb, (Min)..... 60

Cattle weighing over 700 lbs. must be fed 0.5 mg of chlortetracycline/lb. body weight per head per day. The following table can be used as a guideline for various weights of cattle.



Animal Wt. lbs.	Chlortetracycline mg/animal/day	PRO-PHOS 12 CU AU-3500 lbs/head/day
800	400	0.23
1000	500	0.29
1200	600	0.34

Each pound of PRO-PHOS 12 COPPER MINERAL AU-3500 supplies 1,750 mg chlortetracycline. Maximum intake is 5.5 oz (0.34 lb) per head daily. Do not feed free choice.

INGREDIENTS

Monocalcium/Dicalcium Phosphate, Salt, Calcium Carbonate, Distillers Dried Grains with Solubles, Yeast Culture, Molasses Products, Magnesium Oxide, Potassium Chloride, Zinc Sulfate, Sodium Selenite, 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

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

WARNING

A withdrawal period has not been established for this product in pre-ruminating calves. Do not use in calves to be processed for veal.

DIRECTIONS FOR USE

For control of bacterial pneumonia caused by *Pasteurella spp.*:
 Feed 0.2 lb. of this feed/head/day to beef cattle or non-lactating dairy cattle to provide 350 mg of chlortetracycline.

FERMENTATION FORTIFIED WITH DIAMOND V XP™ YEAST CULTURE

Available Options:

Product No.	Options	Mineral Name	Active Drug	Active Drug Level
1990050	Loose	Pro-Phos 12	Non-Medicated	none
1990047	2500 ppm Cu, 7500 ppm Zn	Pro-Phos 12 Cu	Non-Medicated	none
1990053		Pro-Phos 12 AU3500	Aureomycin	3500 g/ton
1990118	2500 ppm Cu, 7500 ppm Zn	Pro-Phos 12 Cu AU3500	Aureomycin	3500 g/ton
1990040	2500 ppm Cu (1/2 organic), 7500 ppm Zn	Pro-Phos 12 AV Cu	Non-Medicated	none
1990049	2.5-3.5% salt	Pro-Phos 12 LS	Non-Medicated	none
1990129	550 IU E/ lb	Pro-Phos 12 E-extra	none	none

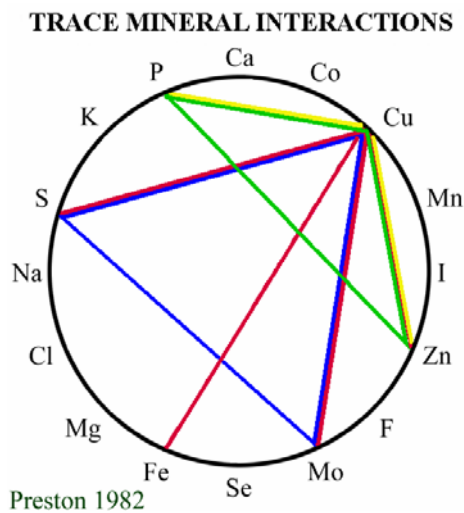
Product Features:

Product Benefits:

High phosphorus level (12%)	Excellent source for replenishing phosphorus in cattle are not on a year-round mineral program. Provides necessary phosphorus for fetal development and reproduction
Provides optimum levels of trace minerals at a 3 ounce consumption rate	Aids in disease prevention, improves fertility, and promotes fetal development
Contains distillers dried grains with solubles	Improved palatability and more consistent intake
Contains Diamond V’s “XP” yeast culture for improved mineral palatability	Better palatability helps maintain consistent feed intake.
Available with higher copper (2500 ppm) and zinc (7500 ppm) levels	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
Aureomycin (Chlortetracycline) option	Aids in control of anaplasmosis

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 12 CU AU3500 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 12 CU AU3500 Mineral is 3.2 oz. (0.2 lb) per head daily. Every ounce of Pro-Phos 12 CU AU3500 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. Use as a replenishing mineral.
2. Provides balanced levels of calcium, phosphorus and salt.
3. Ideal for feeding cattle on dormant or other low quality forage.
4. Complete macro mineral, trace mineral and vitamin supplement.
5. High copper and Aureomycin formulas available.
6. Block formulas available to assist in limiting intake (see Mineral Block pages for more information).
7. Pro Phos 12 LS (low salt) is designed for areas where salt content of the water or soil is high.