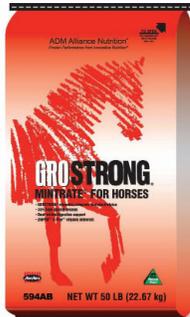


MoorMan's® GROSTRONG® Mintrate® for Horses



Product Number
594

A Protein, Vitamin, Mineral Supplement for All Classes of Horses



Product Positioning

Mineral and vitamin supplementation is necessary for horses for several reasons:

- Required for digestion and utilization of feedstuffs and for most metabolic processes
- Due to mineral depletion of soils, feedstuff nutrient value is lower
- Mineral and vitamin content of forages varies greatly
- Due to vitamin-mineral interactions, these nutrients need to be supplied in the correct amounts and proportions to achieve optimum performance

Supplemental protein may be required based on growth requirements, reproductive stage, and forage quality.

GROSTRONG Mintrate provides the necessary protein, minerals, and vitamins to complement forages and grains, enabling horses to reach their performance potential. GROSTRONG Mintrate combines the advantages of GROSTRONG Minerals with high-quality protein sources. It is the result of unsurpassed formulation expertise and leading edge technology. Over 100 years of formulation and manufacturing expertise back the reliability and nutritional soundness of GROSTRONG Mintrate. GROSTRONG Mintrate, a FORAGE FIRST® Mineral and Vitamin Product, is a key component of the FORAGE FIRST program. FORAGE FIRST programs combine good-quality forage, GROSTRONG vitamin-mineral products, and energy-based products, when needed, to produce balanced total rations. With this combination of feeds, horses can be healthy and perform at their best when fed less grain than they would receive from traditional horse rations. Consequently, horses are at less risk of metabolic and digestive disorders and DOD that may result from high-starch intake.

Product Description

GROSTRONG Mintrate is a high-quality, pelleted, protein-vitamin-mineral product designed for use in situations where additional protein is needed, especially in rations for growing horses and gestating and lactating broodmares.

Features

Contains GROSTRONG Minerals

Complexed trace minerals
(Zn, Mn, Cu, and Co)

Formulated specifically for horses

100+ years of livestock nutrition
research and manufacturing experience

Optimum amounts of protein, vitamins,
and minerals

Provides 33% high-quality protein

Provides Soy Shine™

Provides direct fed microbials

Provides Prospanse® yeast

Benefits

Ensures horses receive 27 major minerals, trace minerals, vitamins, and electrolytes in the correct amounts and ratios needed for maintenance, growth, reproduction, and performance.

Complexed mineral sources are more readily available compared to inorganic sources, which could be crucial to stressed horses.

Horse nutrient requirements can be specifically addressed, which allows product to be designed to provide the amounts of protein, vitamins, and minerals needed specifically by horses.

Assures horse owners of commitment to ensuring high-quality products that perform.

Enables horse to reach their genetic potential by providing key amounts of protein, vitamins, and minerals lacking in feedstuffs.

Ensures essential amino acid needs are met for maintenance, growth, reproduction, and performance.

Supplies energy from proprietary blend of oils and digestible fibers from soybeans; also contributes to hair coat shine and "bloom."

Enables more efficient metabolism of nutrients from the foregut, resulting in better nutrient utilization of the entire ration.

Studies have shown yeast enhances feed palatability, digestibility, and hindgut fermentation.

Features and benefits continued on next page.

Features and Benefits continued.

Provides natural-source vitamin E

Protects body tissues from oxidative damage. The need for vitamin E is vital to immune system functioning and may be especially important for working horses as they are more prone to exercise-induced muscle damage. Research shows natural-source vitamin E is more bio-available compared with synthetic vitamin E.

Pellet form

Better nutrient digestibility and absorption; easy-to-feed and reduces feed waste.

Highly palatable with addition of apple flavoring

Encourages feed consumption.

For equine technical information or assistance: Call our Equine HELPLINE at 1-800-680-8254 or check ADM Alliance Nutrition's Equine Web site: www.grostrong.com.

Product Form/Packaging

Pelleted form in 50 lb bags.

How Much is Needed

• 0.5 to 2 lb per horse daily, top-dressed over other feeds or incorporated into the grain mix.

Guaranteed Analysis

| | |
|---------------------------------------|--------------|
| Crude Protein, min. | 33.00% |
| Lysine, min. | 2.1% |
| Crude Fat, min. | 2.0% |
| Crude Fiber, max. | 6.0% |
| Calcium (Ca), min./max. . . . | 3.5-4.5% |
| Phosphorus (P), min. | 2.0% |
| Salt (NaCl), min./max. | 5.2-6.2% |
| Copper (Cu), min. | 400 ppm |
| Selenium (Se), min./max. . . . | 5-6 ppm |
| Zinc (Zn), min. | 1,560 ppm |
| Vitamin A, min. | 55,000 IU/lb |
| Vitamin D ₃ , min. | 5,200 IU/lb |
| Vitamin E, min. | 500 IU/lb |

Ingredients

Dehulled Soybean Meal, Dicalcium Phosphate, Calcium Carbonate, Salt, Dehydrated Alfalfa Meal, Cane Molasses, Corn Germ Meal, Soybean Hulls, Vegetable Oil Refinery Lipid, Magnesium Oxide, Dried Whey, Brewers Dried Yeast (*Saccharomyces Cerevisiae*), Dried Yeast Fermentation Solubles, Monocalcium Phosphate, Zinc Oxide, Manganous Oxide, Copper Sulfate, Defluorinated Phosphate, Ferrous Sulfate, Cobalt Carbonate, Potassium Iodide, L-Lysine, Linseed Meal, d-alpha Tocopheryl Acetate, Zinc Methionine Complex, Manganese Methionine Complex, Copper Lysine Complex, Cobalt Glucoheptonate, Mineral Oil, Vitamin A Supplement, Vitamin D₃ Supplement, Vitamin E Supplement, Vitamin B₁₂ Supplement, Riboflavin Supplement, Niacin Supplement, Calcium Pantothenate, Menadione Sodium Bisulfite Complex, Thiamine Mononitrate, Sodium Selenite, Lactobacillus Acidophilus Fermentation Product Dehydrated, Lactobacillus Casei Fermentation Product Dehydrated, Bifido Bacterium Thermophilum Fermentation Product Dehydrated, Enterococcus Faecium Fermentation Product Dehydrated, Vegetable Oil, Sodium Bentonite, Natural and Artificial Flavors.

Questions & Answers

1. Q. How should GROSTRONG Mintrate be fed?
A. GROSTRONG Mintrate is designed to be mixed with feed and/or forage. See Instructions for Feeding for specific rations.
2. Q. Why is it necessary to use different levels of GROSTRONG Mintrate in the grain mix for various classes of horses?
A. Nutrient requirements of a horse vary depending on age, degree of use, and classification. Varying the amount of GROSTRONG Mintrate in the grain mix according to age, use, and class of horse allows the horse's nutrient needs to be met more precisely.
3. Q. Should salt be fed free-choice with GROSTRONG Mintrate?
A. A basic amount of salt is included in GROSTRONG Mintrate. However, the total salt requirement of a horse varies with the level of activity. Salt should be provided free-choice to hard-working horses.
4. Q. Does GROSTRONG Mintrate provide adequate vitamins for the lactating broodmare?
A. Yes. GROSTRONG Mintrate provides 55,000 IU/lb of vitamin A and 500 IU/lb of vitamin E, plus other important vitamins, such as D₃, K, and B-complex vitamins (B₁₂, niacin, thiamine, riboflavin, and pantothenic acid).
5. Q. Should GROSTRONG Minerals for Horses be fed along with GROSTRONG Mintrate?
A. Rations based on GROSTRONG Mintrate supply adequate minerals for the average horse. However, as mineral needs of individual horses may vary, it is a good management practice to supply GROSTRONG Minerals free-choice.

Instructions for Feeding

MoorMan's GROSTRONG Mintrate for Horses is not a complete feed – it must be fed with forage. GROSTRONG Mintrate can be fed alone, used as a top-dress over other feed, or used as a mixer pellet for grain mixes (see below). The total Mintrate-feed mixture should be fed up to 3 lb per horse, per meal. All ration changes should be made gradually over a period of 7 to 10 days. Clean, fresh water should always be available.

For Mature Idle Horses

Feed 1/2 -1 lb of GROSTRONG Mintrate and 1 1/2 to 2 1/2 lb of good-quality forage per 100 lb of body weight daily. If needed, mixed feed may be fed at up to 1/2 lb per 100 lb of body weight daily.

For Horses at Work, Pregnant Mares, Lactating Mares, and Stallions in Breeding Season

| | |
|--------------------|------|
| GROSTRONG Mintrate | 20% |
| Feed or Grain Mix* | 80% |
| Total | 100% |

Feed 1/4 to 1 lb of the above mixed feed per 100 lb of body weight daily. Amount of mixed feed will vary depending on level of activity, stage of pregnancy, stage of lactation, condition of horse, forage quality, etc. Feed 2 to 3 1/2 lb of good-quality forage per 100 lb body weight daily along with the GROSTRONG Mintrate-grain mix.

For Long Yearlings and Two-Year-Olds

| | |
|--------------------|------|
| GROSTRONG Mintrate | 20% |
| Feed or Grain Mix* | 80% |
| Total | 100% |

Feed 1/2 to 1 lb of the above mixed feed per 100 lb of body weight daily. Amount of mixed feed will vary depending on level of activity, condition of animal, forage quality, etc. Feed 1 1/2 to 2 1/2 lb of good-quality forage per 100 lb of body weight daily along with the GROSTRONG Mintrate-grain mix.

For Yearlings

| | |
|--------------------|------|
| GROSTRONG Mintrate | 25% |
| Feed or Grain Mix* | 75% |
| Total | 100% |

Feed 1/4 to 1 lb of the above mixed feed and 1 to 2 lb of good-quality forage per 100 lb of body weight daily. Divide equally into at least 2 meals each day.

For Weanlings

| | |
|--------------------|------|
| GROSTRONG Mintrate | 30% |
| Feed or Grain Mix* | 70% |
| Total | 100% |

Feed 1/2 to 1 1/2 lb of the above mixed feed and 1 to 1 1/2 lb of good-quality forage per 100 lb of body weight daily. Divide equally into at least 2 meals each day.

For Nursing Foals (creep ration)

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|--------------------|------|
| GROSTRONG Mintrate | 35% |
| Feed or Grain Mix* | 65% |
| Total | 100% |

Feed 1/4 to 3/4 lb of the above mixed feed per 100 lb of body weight daily along with mare's milk and good-quality forage fed free-choice.

*Grain mix should be predominantly oats, with 20% or less corn, as desired. Corn should be cracked or steam-flaked for adult horses. Corn is not recommended for growing horses. Oats may be fed whole, crimped, or rolled. Grain mixes with higher digestible fiber and less starch (to minimize digestive disorders) are recommended, and can be made by replacing some of the oats and/or corn with alfalfa pellets and/or soybean hull pellets. For custom feeding suggestions, call 1-800-680-8254.

SALT: A basic level of salt is included in GROSTRONG Mintrate for Horses. However, the salt required by horses varies with level of activity and should be offered free-choice.

CAUTION: This feed contains copper. Do not feed to sheep or other copper sensitive species. Follow label directions. Feeding added selenium at levels in excess of 0.3 ppm in the total diet is prohibited.