

Visit [www.admani.com](http://www.admani.com) to see this product's website. Available at the Napoleon Feed Mill in Michigan or visit the website to locate a dealer near you. If you have questions about your horses' nutritional needs, call the company at **1-800-680-8254**

**StaySTRONG™**  
**Metabolic Mineral Pellets**  
**A mineral, vitamin, electrolyte and digestive aid supplement for horses**

ADM Alliance Nutrition® announces a revolutionary new component of its FORAGE FIRST® equine nutritional program.

**StaySTRONG Metabolic Mineral Pellets target both sections of the equine digestive tract** to maximize the digestion, absorption and utilization of forages and feeds that make up the daily rations for horses.



StaySTRONG Metabolic Mineral Pellets are built upon the rock-solid foundation of GROSTRONG® Minerals with electrolytes (since 1925) and enhanced with direct fed microbials to boost foregut efficiency and Prospense® brewers dried yeast, known to improve digestibility of forage components in the hindgut. The convenient pellet form is made for a **one pound per day feeding rate and can be fed alone or in combination with other FORAGE FIRST feeds and supplements.**

**An added bonus with StaySTRONG Metabolic Mineral Pellets is the corn-, alfalfa- and molasses-free formula, which allows 'easy keepers' and starch-sensitive horses to receive needed nutrients without the extra calories and starch commonly found in traditional horse feeds.**

This new product is the result of ADM's unparalleled animal research expertise and once again establishes FORAGE FIRST as the leader of smart, efficient and affordable equine feeding programs.

This proprietary formula enables the horse to synergistically accelerate the digestive process in the stomach and small intestine where maximum absorption takes place. The twofold benefits are:

1. More efficient metabolism of nutrients from the entire ration -- resulting in availability of more nutrients and cost savings
2. Less acidity in the hindgut with more efficient digestive activity – reducing the risks of the number one and two killers of horses, colic and founder

One pound of these crunchy, salty, apple-flavored pellets also contains 500 IU of vitamin E (about half of the total recommended daily amount) as natural-source vitamin E, the most bio-available form. It is available in 40 pound bags which is approximately a one-month supply for one horse.

#### **GUARANTEED ANALYSIS**

Crude Protein, Min.....	10.00%
Crude Fat, Min.....	2.00%
Crude Fiber, Max.....	20.00%
Calcium (Ca), Min.....	3.00%
Calcium (Ca), Max.....	4.00%
Phosphorus (P), Min.....	2.00%
Salt (NaCl), Min.....	5.5%
Salt (NaCl), Max.....	6.5%
Copper (Cu), Min.....	400 ppm
Selenium (Se), Min.....	6.5 ppm
Zinc (Zn), Min. ....	1400 ppm
Vitamin A, Min.....	63,000 IU/lb
Vitamin D3, Min.....	5,500 IU/lb
Vitamin E, Min. ....	500 IU/lb

## INSTRUCTIONS FOR FEEDING

Feed StaySTRONG Metabolic Mineral Pellets at the rate of 0.10 to 0.13% of body weight per horse daily (1.0 to 1.3 lb per 1000 lb horse) along with 2.0 to 3.5% of body weight of good quality hay (20 to 35 lb for a 1000 lb horse) or pasture equivalent. Provide clean, fresh water at all times.

### Feeding options include:

1. Feed alone with good-quality forage to overweight, starch-sensitive, and 'easy keeper' horses.
2. Feed in combination with HEALTHY GLO® or MOORGLO® and good-quality forage to horses doing light to moderate work.
3. Top-dress on FORAGE FIRST Specialized Energy Blends such as SENIORGLO® and POWERGLO® or Fortified Feeds such as GROSTRONG Ultra-Fiber™ and Patriot® Performance Horse Feeds for additional metabolic (vitamin/mineral, electrolyte, and digestive) support for maximum performance of any horse.

### WARNINGS:

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.

## GROSTRONG<sup>®</sup> *Ultra-Fiber*<sup>®</sup> Horse Feed *The Low-Starch Leader*

### Features:

- 13% protein from oil seed meals and grains
- Pelleted and highly digestible
- Fixed formula
- Fortified with GROSTRONG Minerals, vitamins, and electrolytes
- Contains natural source vitamin E

### Benefits:

- Energy from fermentable fibers (soybean hulls, wheat midds, dehydrated alfalfa meal) to take advantage of the unique equine digestive tract
- Lower starch-to-fiber ratio than most grain mixes for reduced risk of digestive disorders, such as colic, founder, tying-up, and ulcers

### Feeding Instructions:

- Feed up to 6 lb per day according to condition and work load of horse

### The Results Speak for Themselves:

GROSTRONG *Ultra-Fiber*<sup>®</sup> Horse Feed was the official feed at the De Anza Trail Ride that started on the Mexican border on April 17th and ended in Julian, CA on April 23rd, 2005. There were 120 to 150 riders who covered 22 to 26 miles per day. The GROSTRONG *Ultra-Fiber* Feed was provided by ADM Alliance Nutrition distributor United Pacific Pet and Alliance Nutrition salesman Al Fenchel.

United Pacific Pet salesman Chuck Gawle participated in the ride and was delighted to report that this was the first time all the horses ate the official feed and there were no reported colics. Some of the riders said their horses actually put on weight during the ride. GROSTRONG *Ultra-Fiber* Horse Feed, The Low-Starch Leader, provides the nutrients your horses need without the grains and starch that often lead to digestive disorders.

### Are You Feeding a Low-Starch Horse Feed ?

In the past, before we knew horses could use fats and digestible fibers for energy more safely and effectively than grains, horse-feed concentrates were selected for low fiber content, often below 6% (Table 1), in order to provide the highest possible amount of digestible energy (DE) in the total ration.

These low-fiber feeds also contained large amounts of non-structural carbohydrate (NSC) such as starch, sugar and pectin compared to forages. However, the selection of low fiber/high starch feeds was based on two assumptions:

- 1 Fiber is not necessary in horse concentrates, and
- 2 Starch in large quantities is not harmful to horses.



Feed	Protein (%)	Fat (%)	Crude Fiber (%)	Calculated NSC* (%)	Estimated Digestible Energy (Mcal/lb)
Corn	8	4	2	67.7	1.5 (1.3 <sup>f</sup> )
Barley	11	2	5	65	1.6 (1.3 <sup>f</sup> )
Molasses	6.6	0	0	62.8	1.3
Sweet grain (unfortified)**	8.6	3.6	3.9	61.8	1.3
Fortified grain**	12	3	6.5	56.3	1.5
<b>Oats</b>	<b>12</b>	<b>5</b>	<b>12</b>	<b>53</b>	<b>1.3</b>
Dehydrated alfalfa	18	2.6	25	23.9	1.0
Timothy	9	2.5	30	17.8	0.8
<b>GROSTRONG<sup>o</sup> Ultra-Fiber<sup>®1</sup></b>	<b>13</b>	<b>6</b>	<b>17.5</b>	<b>13</b>	<b>1.5</b>

Table 1. Nutrient Content of Horse Feeds and Forages

\*NSC = 100 – (protein + NDF + fat + ash + moisture) where NSC is nonstructural carbohydrate; NDF is neutral detergent fiber

<sup>f</sup>Actual value in horses, due to low pre-cecal starch digestibility

\*\*These represent examples of feeds within a feed category

<sup>1</sup>ADM Alliance Nutrition, Inc., Quincy, IL.

Recent research has shown that those assumptions are not correct. We now know that the unique equine digestive tract requires fiber, not just in the forage, but in the concentrate as well, in order to function properly. Large amounts of low-fiber, high-starch feed, fed in meals, have no opportunity to mix with the high-fiber hay fed later. And, non-structural carbohydrates, like starch and sugar, have numerous adverse effects on horses, such as:

- Starch fermented in the stomach contributes to ulcers.
- Easily digestible starch and sugar from oats and molasses contribute to increased blood glucose and hyperactivity following meals.
- Starch from corn and barley has a low foregut digestibility, leading to its fermentation in the hindgut, acidosis and a high risk of colic and founder.
- Mares fed high-starch feeds might produce foals predisposed to developmental orthopedic diseases.
- Growing horses fed high-starch rations are at greater risk for developmental orthopedic diseases.

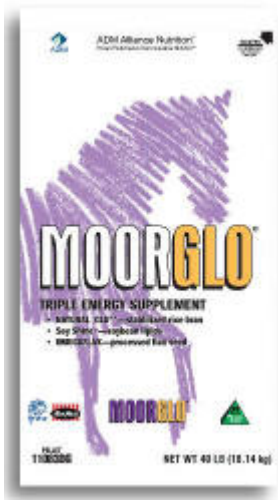
High-forage rations are desirable, because they contain much less starch and sugar. But, how can horses on high-forage rations get enough energy for maximum performance? Fortunately, high-energy, added fat, GROSTRONG *Ultra-Fiber* Horse Feed is now available. It provides substantial energy to horses with minimal starch. And, its 5-6 pound feeding rate allows horses to be fed high-forage rations. Therefore, the use of high-starch cereal grains, which often result in digestive and metabolic disorders, can be eliminated.

When comparing feeds for starch and fiber content, look on the feed tag for these high-quality, easily digestible (low starch) fiber sources: soybean hulls, beet pulp, wheat middlings and dehydrated alfalfa. High-starch ingredients include: corn, milo, barley, oats, other cereal grains and the collective term 'grain products.'

Many companies use a least-cost method to formulate horse feeds. With this method, ingredient amounts change with every batch of feed. Since horses digest ingredients differently, least-cost formulations can result in digestive disorders in horses and are not recommended by ADM Alliance Nutrition. Contact your feed company to find out if they use least-cost horse feed formulas.

The benefits of low-starch rations in elite performance horses in all disciplines and in broodmares, stallions, senior horses and growing horses are being consistently reported in the scientific literature. Now, GROSTRONG<sup>o</sup> *Ultra-Fiber* makes it easy and convenient to provide premium, low-starch rations for all of your horses.

## MOORGLO Limited Starch Supplement



MOORGLO® is a very palatable, pelleted, low-starch, high-energy supplement made from the three best fat sources for horses, stabilized rice bran, Soy Shine® soybean lipids and Omega Flax™ processed flaxseed. MOORGLO is a key component of FORAGE FIRST horse feeding programs. MOORGLO provides energy, essential amino acids, essential fatty acids, B-complex vitamins, and vitamin E (all natural sources). MOORGLO replaces some or all of the grains in typical horse rations with nutrients that are highly digestible: With FORAGE FIRST programs, horses can perform at their best with less grain and less risk of digestive and musculoskeletal disorders associated with high grain intake (colic, founder, tying-up, ulcers).

### Advantages of MOORGLO

- Contains stabilized rice bran, a source of vegetable fat, vitamin E, B-complex vitamins, and numerous antioxidants
- Highly palatable
- Pelleted
- Enhanced with natural source vitamin E which has greater biopotency in horses compared to synthetic forms
- Enhanced with calcium for correct Ca:P ratio
- Enhanced with Proponse® yeast supplement for improved digestibility of feeds
- Contains Soy Shine, a unique combination of highly digestible essential fatty acids, amino acids, fermentable fibers, and other nutrients derived from soybeans
- Reduces the amount of grain or replaces grain in typical horse rations, thereby reducing the risk of disorders associated with high grain intake (colic, founder, tying-up, ulcers, DOD)
- When fed as directed in FORAGE FIRST programs with GROSTRONG Mineral products, results in healthy `glo' and `shine' in the hair coat and strong, **healthy hooves**

### GUARANTEED ANALYSIS

Crude Protein..... not less than 14.0%  
Crude Fat..... not less than 18.0%  
Crude Fiber..... not more than 14.0 /o  
Calcium (Ca)..... not less than 0.8%  
Calcium (Ca).....not more than 1.3%  
Phosphorus (P)..... not less than 0.9/0  
Vitamin E (natural source), not less than 500 International Units per pound.

### Instructions for Feeding:

MOORGLO is very palatable, pelleted, low-starch, high-energy supplement made from the three best fat sources for horses, stabilized rice bran, Soy Shine® soybean lipids and Omega Flax™ processed flaxseed. MOORGLO should be fed with good-quality hay, pasture and/or hay cubes\* and a GROSTRONG Minerals\*\* for Horses product (see label instructions) as part of a FORAGE FIRST Feeding Program. Feed 1-4 oz. MOORGLO per 100 lb. of body weight per horse daily.

Feed the forages at 1.5 to 2.5% of body weight, depending on class of horse. In most situations where alfalfa is the main forage source, additional grain products can be greatly reduced or eliminated. In most situations where grass is the main forage source, additional grain products can be reduced by 25-75%. Adjustments to feed intake should be based on body weight, condition and activity of the horse and forage quality and availability. Feed changes should be made gradually over a 7 to 10 day period. Changes in feeding should not exceed 1 pound per horse daily.

MOORGLO is also beneficial in diets for **cattle, swine, sheep, goats, and other animals.**