

## AZ Copper Complete – a Custom Regional Mix for Western Hays

### AZ Copper Complete MS062010

*Amount provided per standard 5 oz (140 gram) daily serving*

#### Minerals

Cobalt	2 mg
Copper	260 mg
Zinc	720 mg
Manganese	200 mg
Magnesium	5 grams
Iodine	4 mg
Chromium	4 mg
Selenium	2 mg

#### Vitamins

Vitamin E	4,000 IU
Vitamin A	15,000 IU
Biotin	20 mg
B-complex	Equivalent to 1 oz serving of B-Plex

#### Amino Acids

Lysine	10 grams
Methionine	3 grams
Threonine	2 grams

#### Base

Stabilized flax 2.5 ounces  
Horse Tech's NutraFlax stabilized flax base provides 18 grams of Omega-3 essential fatty acids

#### Ingredients

Milled Flax, L-Lysine HCL, Magnesium Oxide, Zinc Amino Acid Complex, Calcium Iodate, Yeast Culture, Chromium Picolinate, Vitamin E, Selenium Yeast, DL-Methionine, Copper Amino Acid Complex, Manganese Amino Acid Complex, Vitamin A Supplement, Biotin, Cobalt Carbonate, Thiamine Hydrochloride, Riboflavin, Pyridoxine Hydrochloride (Vitamin B<sub>6</sub>), Folic Acid, Calcium Pantothenate, Vitamin B<sub>12</sub>, Niacinamide

#### Feeding Recommendations

Standard serving – 5 oz (140 grams) for 880 – 1100 lb horse  
See the Weight-based Feeding Guidelines chart below.

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**AZ Copper Complete - MS062010**

<http://www.horsetech.com/popular-customs.html>

25 lb pail – provides 80 5oz (140 gram) daily servings  
\$106.95 (\$1.33 per daily 5 ounce serving)

#### About AZ Copper Complete

AZ Copper Complete is a high copper supplement formulated to counter the excessive iron found in many Western and Southwestern hays. It reflects the results of analysis of Bermuda and mixed hay found in Arizona, including hay originating throughout AZ as well as Imperial Valley and Colorado.

This is a complete supplement – no other mineral supplements or fortified feeds should be fed but you may safely add joint supplements or herbs when feeding AZ Copper Complete.

AZ Copper Complete will not specifically balance every hay – the only way to do that is by testing each load. It will provide safe adequate levels of minerals and vitamins to complement most Western hays.

AZ Copper Complete is manufactured, sold and shipped by HorseTech. This ensures quality and freshness. In order to keep the price as affordable as possible, there is no marketing, “reselling” or “relabeling” and Desert Equine Balance receives no compensation from the sale of this supplement.

AZ Copper Complete is appropriate for all horses. If your horse is already receiving a quality supplement (one that provides generous levels of essential nutrients) you will not see a dramatic difference. You will, over time, appreciate subtle improvements in hoof and coat quality, work tolerance and recovery, comfort and general health.

AZ Copper Complete is not a “magic bullet” supplement meant to fix all problems. It does not substitute for appropriate diagnosis and management of metabolic, hoof or lameness issues but does provide a high level of support for prevention and rehabilitation.

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When adjusting the amount of supplement fed up or down, consider both the horse's weight and the amount of hay/forage eaten daily. This is not an "exact" science. Feeding less than the recommended amounts will have less benefit; feeding more is wasteful. Though not usually advised, the recommended amounts to be fed can be safely doubled for the weights shown and still remain well below NRC maximum tolerable levels.

<i>Feeding Guidelines per day (based on forage fed at 2% BW)</i>			
<b>Horse's Weight</b>	<b>Hay or Forage Lbs/day</b>	<b>AZ Copper Complete MS062010</b>	The enclosed 1/2 cup scoop will hold approximately 70 grams (2.5 oz) when filled to "level"
1600-1800	32-36	10 oz (280 grams)	4 scoops per day
1400-1600	28-32	9 oz (252 grams)	
1200-1400	24-28	8 oz (224 grams)	3 scoops per day
1050-1200	20-24	7 oz (199 grams)	
950-1150	18-24	6oz (170 grams)	2-1/2 scoops per day
<b>880-1100</b>	<b>16-22</b>	<b>Standard Serving 5 oz (140 grams)</b>	<b>2 level scoops per day</b>
700-900	14-18	4-5 oz (112-140 grams)	
600-750	12-15	4oz (114 grams)	1-1/2 scoops per day
450-600	9-12	3.5oz (99 grams)	
300-450	6-9	2-3oz (56-84 grams)	1 to 1-1/4 scoops per day
200-300	4-6	1-2oz (28-56 grams)	
< 200	< 4	1oz (28 grams)	1/2 scoop per day

Provide to horses at the rate of 140 grams (5 oz.) per day to provide nutrients as specified by client.  
 The enclosed 1/2 cup scoop will hold approximately 70 grams (2.5 oz) when filled to "level".  
 Provide two (2) level scoops per day to provide nutrients as specified by client.

*All supplements and feeds should be stored in a cool dry environment to ensure continued potency of ingredients.  
 Always have fresh water and plain white salt (block or loose) available.*

### Additional Feeding Notes -

The following notes are based on an 850-1100 lb average horse eating approximately 16 to 22+ pounds of hay/forage a day (2% of body weight) and receiving a standard 5 ounce (140 gram) serving of AZ Copper Complete.

**Flax** – 2-6 ounces will provide adequate Omega-3 fatty acids. Horses on pasture full time can obtain adequate Omega-3; horses not on pasture should receive a source of Omega-3 fatty acids.

AZ Copper Complete contains 2.5 ounces of flax; feeding an additional 2-4 ounces is optional.

**Magnesium** – With untested hay, I do not recommended exceeding 10 grams magnesium. AZ Copper Complete contains 5 grams of magnesium which will supply “insurance” for healthy adult horses. Additional magnesium is not advised for most horses.

For an insulin resistant (IR) horse, you can slowly add up to 5 additional grams of magnesium based on response (crest, manure consistency). Some EPSM/PSSM symptoms may also respond to higher levels of magnesium; this should be individualized.

HorseTech Magnesium Oxide - 5 grams would be 1 rounded scoop (a level scoop is approximately 4.5 grams), 10 grams would be two rounded scoops.

If using teaspoons/tablespoons – a level tablespoon of magnesium oxide supplies approximately 8 grams of magnesium; a level teaspoon supplies approximately 3 grams.

**Vitamin E** – AZ Copper Complete contains 4,000 IU of vitamin E. Heat, air and light will affect the long-term potency of vitamin E (and other nutrients) in any supplement. The vitamin E in AZ Copper Complete will remain stable for several months however I normally suggest ordering no more than a 3-month supply. The absorption of vitamin E requires fat and may be enhanced by adding a small amount of oil (1-2 Tablespoons) at time of feeding.

Horses on full time pasture receive adequate vitamin E; horses fed hay only should be supplemented year round.

Horses with EPSM/PSSM symptoms may benefit from higher levels of vitamin E (up to 10,000 IU for large drafts or Warmbloods). This may be supplemented by adding vitamin E gel capsules directly to the feed – there is no need to open the gel caps.

**Salt** – horses at maintenance should receive 1 to 3 oz plain salt per day. Do NOT use mineral salt or mineral salt blocks. One ounce of salt is approximately 4 teaspoons. 2 oz is approximately 8 tsp (or slightly less than 3 Tbsp). Plain bulk salt can be purchased at Costco, Sam’s Club and, sometimes, at bakeries. Some feed stores carry plain and iodized salt, read labels carefully. A plain **white** salt block should be available at all times.

**Iodine** – AZ Copper Complete contains adequate iodine for horses eating up to 24 lbs or so of hay at maintenance or in work. Larger horses eating more hay will also receive a larger serving of supplement so should receive adequate iodine. In circumstances where increased levels of iodine are desirable (such as with high nitrate hay) iodized salt may be used instead of plain salt, or an additional source of iodine may be added.

See the “Measure” files at <http://www.desertequinebalance.com/Files/measure-basic-minerals> for more information on measuring.

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### **Ordering:**

AZ Copper Complete is available directly from HorseTech - <http://www.horsetech.com/popular-customs.html>  
You can also order by phone 1 (800) 831-3309 or by email [service@horsetech.com](mailto:service@horsetech.com)  
If ordering by phone or email, specify AZ Copper Complete - MS062010

AZ Copper Complete is available in 25 lb buckets, which provides 80 5-ounce (140 gram) servings. There are no additional shipping charges – shipping is included in the price of the supplement.

Sugar free Molasses or Apple flavoring can be added at no additional charge.

### **Questions?**

AZ Copper Complete is a Custom Product formulated to my specifications. Therefore HorseTech does not carry the product specific information on their web site. Any questions should be directed to Patti Woodbury Kuvik at [DesertEquineBalance@gmail.com](mailto:DesertEquineBalance@gmail.com).