

# COOL OAT FREE!

High Protein & Energy



 Cool+

AVAILABLE IN 20KG POLY AND 30KG JUTE BAGS

# Cool+



## HIGHLY NUTRITIOUS & ECONOMICAL FOOD FOR ALL HORSES

***Cool+ is suitable for use in all feeding applications!***

The high protein, energy and cool nature of **Cool+** make it the ideal choice for the demanding requirements of intense work, growth and lactation. Being cool and oat free, it is also an excellent food for ponies and leisure horses.

**Cool+** contains Amylase for improved digestion of starch, a high lysine level of 0.80%, high levels of Omega 3 and Omega 9 oils, a comprehensive vitamin & mineral premix and organic chromium.

### **AMYLASE**

***The power of nature!***

Amylase is a natural protein enzyme that is responsible for the break down of complex starches in the small intestine to simple sugars that are then absorbed to provide energy. Horses do not produce enough Amylase for effective digestion of large amounts of starch, this is why they have more problems digesting high starch diets compared to some other grain eating animals. Starch digestion in the small intestine can be improved naturally and safely, without over processing or excessive heat treatment, by supplementing the diet with Amylase.

### **UNIQUE FORMULATION**

***Naturally the best!***

**Cool+ has been scientifically formulated to ensure safe and highly efficient starch digestion in the small intestine.**

Starch digestibility in the small intestine is very important to prevent digestive problems such as caecal acidosis which can lead to poor fibre digestion, diarrhoea, colic and laminitis. We have attained high starch digestibility in **Cool+** by the addition of the digestive enzyme Amylase, by specially selecting ingredients that have a natural high starch digestibility and by heat treatment.







### **ORGANIC CHROMIUM**

#### ***Enhanced performance!***

Research has shown beneficial responses to supplementing diets with organic chromium where high stress, strenuous activity is performed.

Organic chromium has been added to **Cool+** to help maintain chromium levels during strenuous activity, this improves the bodies sensitivity to insulin, which in turn improves glucose utilisation and therefore the horses performance.

### **RICH IN OMEGA 3 & 9 OILS**

#### ***Premium quality vegetable oil***

**Cool+** contains premium quality vegetable oil which is an excellent source of readily available energy. Oil provides cool, safe and manageable energy and is a more efficient source of energy than carbohydrates. Oil has the advantage of sparing glycogen in the muscle and liver of horses thus increasing the time taken for the muscle to become fatigued.

Oil contains approximately two and a quarter times more energy than carbohydrates and has an excellent balance of essential omega fatty acids. Omega fatty acids impart an attractive sheen to a horses coat, are important for maintaining healthy skin and are necessary for many biological functions.

They also aid in the absorption and storage of the fat soluble vitamins A, D, E and K.

### **HI-LYSINE**

#### ***For strong muscle growth and recovery!***

Protein is made up of components called amino acids, of which some must be provided via the diet and others are synthesised by the animal. Amino acids needed to be supplied via the diet are called essential amino acids, of these lysine is normally the one most likely to be in short supply.

**Cool+** is balanced for essential amino acids, particularly lysine, and as can be seen in the "Lysine" chart contains a substantially higher level of lysine than typical horse feeds. The high lysine and balanced protein of **Cool+** ensures efficient protein utilisation, improved growth in young horses, increased milk production, enhanced muscle tone and aids in muscle recovery after strenuous exercise.



## ENERGY & COOLNESS RATING



ENERGY



COOLNESS

### AGED HORSES

#### *Caring for old friends!*

**Cool+** is the ideal food for aged horses and those horses that have difficulty in adequately chewing their feed.

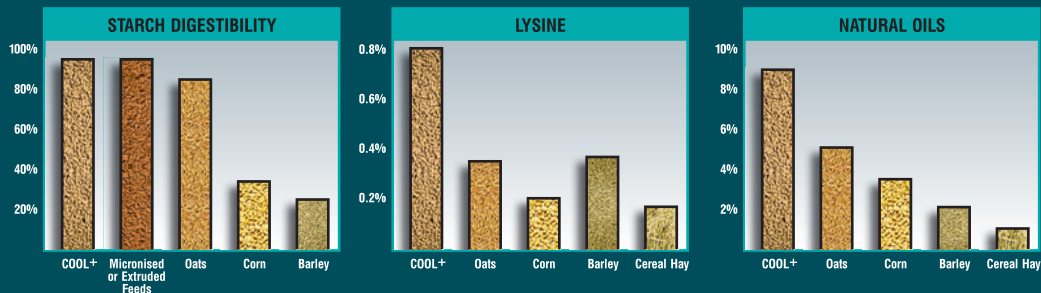
All of the ingredients in **Cool+** have been specially processed to ensure that they do not require mastication for the horse to receive its full nutritional benefit. To further enhance nutrition intake particular attention has been made to ensure that **Cool+** is very palatable. The high nutritional level of **Cool+** is beneficial for older horses that struggle to maintain a healthy body weight.

### IMPROVE YOUR OWN GRAIN

#### *Innovative nutrition!*

Apart from being a very nutritious diet in its own right, **Cool+** has the ability to enhance the nutritional digestibility of other grains that you may wish to feed. If **Cool+** is fed at a rate of 3kg per day along with your own grain, enough Amylase will be consumed to have a beneficial effect on the digestion of starch in the extra grain.





## ELECTROLYTES The right balance!

**Cool+** contains essential electrolytes to aid in the prevention of deficiencies, particularly potassium, sodium and chloride. Under normal conditions no extra electrolyte supplementation will be necessary. Where moderate to heavy sweating occurs it may be necessary to supplement extra sodium chloride (salt) and to a lesser extent potassium. This can be done cheaply and effectively without the necessity to buy expensive electrolyte mixes.

The following chart indicates the approximate amount of electrolytes that a 450 kg horse is likely to require in addition to that supplied by the feed when **Cool+** is fed as recommended.

### Points to note when feeding electrolytes

- When dosing high levels of electrolytes it is important to ensure that fresh drinking water is available at all times. This will allow the horse to regulate its fluid intake and ensure that dehydration does not occur.
- Only administer high levels of electrolytes when heavy sweating has occurred.
- It is recommended that electrolytes be added to the food or administered as a drench.
- Do not add electrolytes to the drinking water as the horse will not be able to regulate its water / electrolyte balance and problems may occur.
- If the drinking water has a high mineral content, such as bore water, it is recommended that you discuss the feeding of extra electrolytes with your veterinarian before proceeding.

## ELECTROLYTE CHART

### SODIUM & CHLORIDE REPLACEMENT

#### Salt (NaCl)

Mild sweating	Nil
Moderate sweating	25 to 75 gms per day
Heavy Sweating	75 to 125 gms per day
Excessive & prolonged sweating	125 to 225 gms per day

### SODIUM, CHLORIDE & POTASSIUM REPLACEMENT

#### Salt & Potassium Mix

Mild sweating	Nil
Moderate sweating	30 to 100 gms per day
Heavy Sweating	100 to 175 gms per day
Excessive & prolonged sweating	175 to 300 gms per day

#### Salt & Potassium Mix

There are two options that can be used to make this mixture:

**Mixture 1.** Mix equal parts of "Lite Salt"\* and salt.

**Mixture 2.** Mix 75% salt with 25% potassium chloride.

Both mixtures are similar and will provide the main electrolytes sodium, chloride and potassium in a balanced ratio to each other

\* "Lite salt" (or similar products that contain approximately half salt and half potassium chloride) is a mixture of salt and potassium chloride and can be purchased at most supermarkets or grocery stores.



## ANALYSIS & INGREDIENTS

**PROTEIN 18 % min.**

**OIL & FAT 9% min.**

**FIBRE 13 % max.**

**Cool+** has been formulated from a selection of the following quality ingredients and/or their by-products: Bran, Pollard, Barley, Triticale, Cooked Cereals, Rice, Canola, Soyabean, Sunflower, Safflower, Cottonseed, Lupins, Peas, Beans, Vegetable Oil, Amylase, Organic Chromium, Electrolytes, Vitamins and Minerals as listed below.

### VITAMINS, MINERALS & ELECTROLYTES

**Cool+** fed at the rate of 5.0kg per day along with 5.0kg roughage will approximately provide the following levels of vitamins and minerals:

#### MINERALS & ELECTROLYTES

Calcium (Ca)	75	gm
Phosphorous (P)	43	gm
Magnesium (Mg)	28	gm
Sodium (Na)	35	gm
Chloride (Cl)	64	gm
Potassium (K)	115	gm

#### TRACE MINERALS

Iron (Fe)	2,045	mg
Copper (Cu)	190	mg
Manganese (Mn)	920	mg
Zinc (Zn)	770	mg
Chromium (Cr)	1,000	mcg
Cobalt (Co)	3,100	mcg
Iodine (I)	1,900	mcg
Selenium (Se)	2,800	mcg

#### VITAMINS

Vitamin A	182,790	iu
Vitamin D3	9,600	iu
Vitamin E	1,300	mg
Thiamine (B <sub>1</sub> )	87	mg
Riboflavin (B <sub>2</sub> )	95	mg
Pyridoxine (B <sub>6</sub> )	60	mg
Folic acid	30	mg
Pantothenic acid	125	mg
Niacin	395	mg
Choline	11,510	mg
Biotin	4,050	mcg
Vitamin B <sub>12</sub>	200	mcg

## DAILY FEEDING CHART

	Horse weight	Cool+	Hay #
Intense work	450 kg	6.0 kg	4.5 kg
Moderate work	450	4.0	4.5
Light work	450	2.0	5.5
Weaner (4 months)	200	3.5	1.5
Weanling, moderate growth (6 months)	200	3.0	2.0
Weanling, rapid growth (6 months)	200	3.5	2.0
Yearlings, moderate growth (12 months)	300	3.5	3.0
Yearlings, rapid growth (12 months)	300	4.0	3.0
Long yearlings at rest (18 months)	365	3.0	4.0
Long yearlings in training (18 months)	365	4.5	4.5
Two year olds at rest	410	2.0	5.0
Two year olds in training	410	4.0	5.0
Early lactation	450	4.5	5.5
Late lactation	450	2.5	6.5
Pregnant mares (9 to 10 months)	450	1.5	6.5
Pregnant mares (11 months)	450	2.5	5.0
Breeding stallions	450	2.0	5.5

Do not feed more than approximately 0.8% of body weight (3.6kg for a 450kg horse) of **Cool+** in a single meal

# Hay, chaff or pasture at 9% protein

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