

Marksway HORSEWAGE®



BY APPOINTMENT TO
HER MAJESTY THE QUEEN
MARK WESTAWAY AND SON
MANUFACTURERS OF HORSE FORAGE



MOLLICHAFF®

The Original Dust-Free Forage Manufacturer

During the seventies the late Mark Westaway became increasingly concerned about his event horses persistently coughing. His veterinary surgeon expressed the view that the coughing was dust related and that since hay was the major dust source, the problem would continue unless someone could come up with a dust free forage designed specifically for the horse.

So from a chance but significant remark the idea for HorseHage was born.

The original Ryegrass HorseHage has been joined by High Fibre HorseHage, Timothy HorseHage and the specialist product, Alfalfa HorseHage.

HorseHage is also well-known for the Mollichaff range of high fibre chaffs and complete feeds.

A Royal Warrant was awarded in 1983 after the Queen's horse, Burmese, was fed HorseHage when suffering a respiratory problem. She was one of tens of thousands of ponies and horses, from Shetlands to Thoroughbreds, that have benefited from HorseHage's dust-free properties. World-renowned veterinary charity, the Animal Health Trust, feeds patients in its equine clinic dust-free forage when appropriate. The dust-free element is particularly important for patients which are

suffering from eye problems, or allergic respiratory disease. The AHT believes that minimising dust in the environment promotes equine health. HorseHage is the Official Supplier of Dust-Free Forage to The British Equestrian Team. HorseHage has been supplied to the British Equestrian Teams at every Olympic Games since Los Angeles in 1984. We also supply forage for the Horse of the Year Show (HOYS).

Mark Westaway gives two main reasons for the success of HorseHage. "Firstly it is a natural product with no additives and is the nearest thing you can get to grass in the field. Secondly, it helps to maintain healthy respiratory and digestive systems. Over forty years of production has given us all the knowledge and experience we need to make a top quality product, and our sales prove this."



Official supplier of
dust-free forage to the
British Equestrian Team

What To Feed



Horses have evolved to live on an almost entirely forage-based diet. In the wild they will graze for up to 18 hours a day, covering many miles in doing so. When you plan your horse's diet there are a few basics to remember when deciding what to feed your horse:

- Always base your horse's diet around forage
- You only need to add concentrates to the diet if your horse requires more energy or weight-gain. In most cases simply a change in forage will promote weight gain e.g. changing from hay to haylage and from straw-based chaff to an alfalfa-based chaff.
- Lack of energy when exercising your horse, as long as he is not under-weight, in 99% of most cases is due to a schooling problem rather than a feeding one.
- You should always provide salt in your horse's diet in the form of a pure salt lick in his stable / field if living out all the time.
- If your horse does not require feeding, provide a broad-spectrum vitamin and mineral supplement or a feed balancer in a handful of low sugar chaff.

In order to maintain health and condition the horse needs to receive a regular supply of certain dietary components or nutrients.

Just like humans, the nutrients the horse requires on a daily basis are protein, energy, fibre, vitamins, minerals and water.

The horse derives these nutrients from the feed ingredients in his diet. In the wild, the horse would wander many miles searching for grass and other herbage to satisfy these nutrient requirements.

By domesticating the horse, we have restricted the pasture they have access to and that pasture often contains only a very limited number of plant species. Thus the modern day horse may not be able to meet his total daily nutrient requirement from his pasture. Available pasture will provide sufficient levels of some nutrients but not of others and so the horse will need supplemental nutrients given to him in another form.

The horse, through evolutionary adaptation, which has occurred over a period of 65 million years, has become a 'trickle-feeder'. His digestive system, with its small stomach and very large, bacteria-filled hind gut is designed to contend with an almost continuous supply of grass and associated herbage.

HorseHage and Mollichaff offer a complete range of fibre-based feeds to meet the needs of all horses and ponies.

Marksway HORSEHAGE®

The **Original** Dust-Free Forage

HorseHage is the ideal forage for all horses and ponies. It is consistent and reliable and contains just grass alone. When fed as the main forage source it can enable you to reduce your horse's hard feed by up to a third.

HorseHage is dust-free, making it ideal for when your horse has to be stabled for extended periods of time, and comes with a 100% quality guarantee.

It contains no chemical additives, mould inhibitors,

flavourings, molasses or inoculants, and due to the unique fermentation process, the sugar in HorseHage is considerably lower than other forages.

HorseHage is more digestible than other forages, allowing more efficient utilisation of the available nutrients, and because it retains much of the value of fresh grass, HorseHage improves condition and adds a natural bloom to the coat.

HorseHage splits very easily into wedges for netting up.

TIMOTHY

Timothy HorseHage, as its name implies, is made from Timothy grass which is very similar to the famous Kentucky bluegrass of America. This grass is higher in fibre and lower in protein than many other grasses, making Timothy HorseHage particularly suitable for leisure horses and ponies, native ponies, veterans and horses and ponies that are resting, convalescing or prone to laminitis.

Timothy has a completely different 'nose' to ryegrass, from which Ryegrass HorseHage and High Fibre HorseHage are made. It has a similar nutrient analysis to High Fibre HorseHage and is highly palatable, making it ideal for fussy feeders or simply to add variety to the diets of those already being fed HorseHage.

ALFALFA

Alfalfa is a legume rather than a grass. It has higher levels of protein, digestible fibre, energy, calcium and vitamins than grass. The protein content has the optimum balance of amino acids and particularly lysine, which is especially important for growth, pregnancy and milk production.

The high nutrient levels also make it suitable for horses in hard work, poor doers, veterans and show horses. Advice should be sought through our helpline before feeding.

Alfalfa HorseHage is available to special order through your feed merchant.



RYEGRASS

Ryegrass HorseHage is the original HorseHage, having provided consistent reliability and quality for over 40 years. Made from a selection of ryegrasses cut at an earlier stage of growth to provide optimum protein and energy levels.

It is suitable for horses in work – those that need a little more from their forage. Also great for hunters, heavy horses, youngstock and breeding stock.

It can also be fed to help horses gain weight and improve condition.



HIGH FIBRE

High Fibre HorseHage is made from a selected mix of grasses that are high in fibre and lower in protein and energy levels. Because it is low in energy, High Fibre HorseHage is generally suitable for leisure horses and ponies, native ponies, veterans and those that are resting, convalescing or prone to laminitis. It also provides an excellent fibre source for competition horses being fed high levels of concentrate.



BY APPOINTMENT TO
HER MAJESTY THE QUEEN
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MANUFACTURERS OF HORSE FORAGE

Feed With Confidence



100% Guarantee

We offer a 100% quality guarantee on every one of our bales, as well as a team of nutritionists and a wealth of research and experience – in fact everything you would expect from a quality feed manufacturer.



HorseHage

HorseHage is a consistent, reliable, dust-free, semi-wilted bagged forage and has BETA NOPS certification.

Often copied, but never equalled.



Ideal for horses & ponies prone to laminitis.

HorseHage is low in sugar and starch and high in fibre. It is produced in four different varieties. The High Fibre and Timothy varieties both carry the HoofKind logo to denote that they are safe to feed to horses and ponies prone to laminitis.



No Chemicals/Flavourings

HorseHage contains no chemical additives, mould inhibitors, inoculants, flavourings, additives or molasses. It is a totally natural product.



Four Varieties

HorseHage comes in four different varieties - Ryegrass, High Fibre, Timothy and Alfalfa - offering different energy values and providing a forage choice to suit all types of horses and ponies.



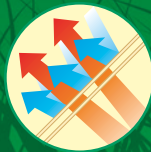
Dust free

HorseHage is dust-free which is an important factor in the prevention and management of respiratory conditions such as RAO (Recurrent Airway Obstruction). A healthy respiratory system is vital for optimum performance from any horse or pony.



Low Sugar

HorseHage goes through a unique fermentation process which means it is considerably lower in sugar than other forages.



Double skinned bag

HorseHage is packed and heat-sealed into double skinned bags to help reduce the risk of puncturing. The bags are semi-permeable, allowing the gas produced during the unique fermentation process to escape without letting any air in.

Do you know your HorseHage from your haylage?

Many people think that HorseHage and haylage are the same but there are several important differences:

HorseHage is made from specifically grown grass leys or alfalfa. The fields are cultivated and reseeded every two to three years to maintain the consistent nutrient and fibre levels and minimise weeds.

Haylage, on the other hand, is often made from older pasture which the farmer rotates between grazing for his stock and forage production. The grass tends to be perennial and yields a forage which can be variable. It is generally lower in fibre and higher in protein than bagged forage and can be too rich for horses.

HorseHage is produced with the optimum moisture content for horses of between 35 and 45 percent through strict quality control throughout the production process.

When making small bale haylage in a general farming situation, this level of control is difficult to maintain.

HorseHage is wilted on the field and baled just like hay. It is then highly compressed to leave a minimum amount of air in the bag. This ensures the optimum fermentation needed to preserve the grass or alfalfa as a forage suitable for horses, and minimises the growth of bacteria, fungi and moulds.

With small bale haylage, there is more air present due to lack of compression and fermentation is less efficient and may allow the growth of undesirable organisms.

HorseHage is packed in plastic bags with an inner plastic liner to reduce the risk of puncturing, which causes mould. The plastic is also semi-permeable which allows gas produced during the fermentation stage to escape, whilst preventing air from entering. This process results in the vacuum-packed appearance of HorseHage bags which makes the product very stable and able to be kept for up to 18 months

unopened. The size of the bales makes them very easy to handle and they can be stored outside on a pallet. Due to the highly compressed bale, you may find there is more forage inside a bale than you think!

Haylage is usually wrapped or packed in non-permeable plastic which is more easily punctured.

We go to considerable efforts to ensure that the grass and alfalfa harvested for HorseHage is at the optimum level of growth before cutting. The decisions on when to mow a particular field and when to bale the grass to achieve maximum quality are based on examining the crop in the field and using years of experience in producing HorseHage. Batches are examined prior to release for sale and checked for moisture content, visual appearance, texture and aroma. Nutritional analysis is carried out throughout the season to provide us with the maximum levels of information regarding the feed value of our products.

Haylage tends to be cut when the weather is good and is not usually tested before cutting, so nutrient value and DM can vary.

HorseHage is fully guaranteed by the manufacturers.

Haylage can often vary in quality and nutrient value from bale to bale and there is often no guarantee when buying each bale, which often results in a degree of wastage.

HorseHage is produced in four varieties – Ryegrass, High Fibre, Timothy and Alfalfa – enabling you to feed a forage that is matched to your horse's requirements.

Haylage generally only comes in one type and the nutrient and energy values are often not known.

HorseHage... 100% Natural



MOLLICHAFF®

Our comprehensive Mollichaff range offers a choice of high quality chaffs to add bulk and fibre to your horse's diet, as well as a range of complete feeds and alfalfa products.

Our specialist chaff range has six tasty options made from top quality oat and wheat straw. They are dust-extracted, chopped and lightly dressed with a variety of ingredients, individually tailoring the chaff to your horse's needs.

Our chaffs have an open texture, unlike some heavily molassed chaffs which can be sticky and lumpy.

By stimulating the production of saliva and slowing down the passage of food throughout the gut, Mollichaff can help maintain a healthy digestive system. In particular it will satisfy a stabled horse's psychological need to chew, requiring up to 8000 chews per kilo to eat compared to as few as 1200 for concentrates.

Check out the full range to see what's available for your horse or pony.



BETA NOPS

All HorseHage and Mollichaff products carry BETA NOPS (Naturally Occurring Prohibited Substances) certification. Prohibited substances are defined broadly as any substance which can exert an effect on a horse. A naturally occurring prohibited substance (NOPS) is one that is either present naturally in certain ingredients or one that occurs as a result of cross contamination during processing before arriving at the feed manufacturer's facility.

The BETA NOPS code requires manufacturers to evaluate the risk of a NOPS contamination during every step of the sourcing, storage, transport and manufacturing processes for each product and to design their quality management systems in line with the risks identified. The code has been endorsed by the British Horseracing Authority (BHA) and the National Trainer Association.

HorseHage and Mollichaff are produced in compliance with the BETA NOPS code, following the current best practice to minimise the risk of contamination by NOPS. For professional riders who compete at a level where testing for prohibited substance is likely, this is extremely important as a positive blood test can have devastating effects on their career.

What does this mean for you and your horse?

We want to produce the highest quality feeds that we can. When you buy any HorseHage or Mollichaff product you know that it is cut from the finest leys or manufactured from premium ingredients. You can also be sure that all the ingredients are fully traceable and the feed is manufactured under the highest industry standards.

*Mollichaff products made in Northern Ireland do not have UFAS or BETA NOPS certification.

HorseHage

HorseHage is certified by the Feed Materials Assurance Scheme (FEMAS). This is a voluntary feed industry standard to ensure the safety and traceability of the feed that you give to your horse or pony.

The FEMAS Standard is applied to feed ingredients used in the production of animal feed and ensures that HorseHage is produced from specially-grown grass and alfalfa leys with a high regard for feed safety, consistent quality and full product traceability.

Mollichaff range

All Mollichaff products are assured by the Universal Feed Assurance Scheme (UFAS Compound Feeds) which is designed to ensure safe practices in the manufacture and distribution of animal feeds. All feed ingredients are carefully selected and sourced from FEMAS, Farm Assured or other certified schemes, providing full traceability. Mollichaff production, storage and distribution is carried out under conditions of strict quality control and with careful regard to feed safety standards.



MOLLICHAFF ORIGINAL

A high quality chaff combining straw and a light dressing of molasses with the addition of calcium.

Made from the highest quality wheat straw – chopped and dust extracted.

Contains a light dressing of molasses.

Naturally high in fibre.

Contains added limestone to provide additional calcium for strong bones and healthy growth.

MOLLICHAFF EXTRA

A high quality chaff combining wheat straw, a light dressing of molasses and a broad spectrum of vitamins and minerals.

Mollichaff Extra contains limestone and a specially formulated mineral and vitamin supplement.

The added minerals and trace elements are selenium, copper, magnesium, manganese, zinc, iodine and iron.

The vitamins are A, B1, B2, B6, B12, D3, E, niacin, pantothenic acid, folic acid, choline chloride and biotin.

Together these benefit the condition of all horses and ponies, especially breeding and young stock and those on a low concentrate/high forage diet.



MOLLIChAFF APPLEChAFF

A high quality, appetising chaff with apple.

Contains real diced apple pieces as well as apple essence to make AppleChaff irresistible to the fussiest of feeders.

Made from the highest quality wheat straw - chopped and dust-extracted.

Contains a light dressing of molasses.

Naturally high in fibre.

Contains added Limestone to provide additional calcium for strong bones and healthy growth.



MOLLIChAFF SHOWSHINE

A high-oil chaff for ultimate show condition.

Cherry flavouring gives ShowShine a delicious taste and smell making it highly palatable to even the fussiest of feeders.

Made from the highest quality oat straw - chopped and dust-extracted.

Contains a unique coating combining high levels of soya oil with a light coating of molasses, giving added condition and a bloom to the coat.

Naturally high in fibre.

Contains added limestone to provide additional calcium for strong bones and healthy growth.



MOLLIChAFF HERBAL

A high quality chaff made from the best oat straw with the addition of a variety of herbs found in the horse's natural environment.

Contains a balanced mixture of Garlic, Mint, Rosemary and Golden Rod. Garlic is widely thought to aid digestion and maintain a healthy respiratory system as well as being a natural fly repellent. Mint improves palatability and is thought to help maintain a healthy respiratory and digestive system. Rosemary and Golden Rod are both thought to stimulate the appetite.

Contains a light dressing of molasses.

Contains added limestone to provide additional calcium for strong bones and healthy growth.

Contains no artificial flavours.



MOLLIChAFF VETERAN

Veteran contains a balanced blend of dried grass, dried alfalfa and oat straw and is topped with a unique dressing combining linseed and soya oil with a very light dressing of molasses, plus added vitamins and minerals, plant-based antioxidants, mint, nettle, salt and added biotin.

Mollichaff Veteran is a high fibre forage mix designed to complement the forage ration where necessary. The high palatability of Veteran makes it ideal for horses and ponies that are unable to consume long forage and require a partial forage replacer. This also makes it extremely appealing to even the fussiest feeders that require an additional forage source. Veteran is also suitable for young-stock.

Mollichaff Veteran contains linseed oil which is a rich source of essential fatty acids including Omega 3.

Antioxidants from a plant-based source are included to help combat free radicals.

Nettles are naturally high in vitamins and minerals and mint is commonly used as a digestive aid in horses and they find the aroma and taste of mint to be particularly appealing.

Mollichaff Veteran contains added limestone to provide additional calcium for strong bones. Salt provides two important electrolytes – sodium and chloride. Also contains added biotin for healthy hooves.

For guidance on how much to feed, please contact us for a ration suggestion based upon your horse or pony's individual needs.

Veteran contains only natural ingredients.



MOLLICHAFF[®]

COMPLETE

In addition to our range of chaffs, we have developed three 'complete' high fibre feeds. These are feeds which, when fed at the recommended

levels, can be used as the sole bucket feed as they contain all the vitamins and minerals required, so you have no need for several different bags of feed and supplements which can save you money on your feed bills as well as promoting a more natural diet for your horse by feeding a fibre-based ration rather than cereals.



The HoofKind Diet

Forget your shopping list of nuts, alfalfa, chaff, oil, minerals and vitamins, and specialist hoof supplements. A simple diet of Mollichaff HoofKind Complete – a complete feed in a bag containing all these ingredients plus important natural antioxidants, fed with High Fibre HorseHage or Timothy HorseHage, supplies all the nutrient and fibre requirements of horses and ponies in moderate to light work (hacking or schooling 4 - 5 times a week), resting or those prone to laminitis.

For an average 500kg horse, feeding the required 2.5kg per day will provide the required 15mg of biotin.

HoofKind Complete also contains added magnesium. Magnesium is often deficient in UK soils and is an important factor in the nutritional support of many metabolic processes in the horse.

Additional natural plant-based antioxidants are also included in HoofKind Complete. Antioxidants help mop up free radicals and these particular antioxidants have been specially selected for the nutritional maintenance of a healthy immune system, respiratory system, circulatory system and the all-important hooves and laminae.

FEEDING GUIDE

The following table is intended as a guide only. Good quality forage should also be offered to complete the diet. Remember that every horse is an individual and should be treated accordingly.

- Always feed at least 1.5% of bodyweight in total food per day (including forage), even to overweight horses and ponies.
- Clean, fresh water should be available at all times.
- Always weigh feedstuffs, particularly when feeding horses and ponies that are overweight or prone to laminitis.
- Feed dry or damp according to preference
- As with all new feedstuffs introduce gradually and increase quantities as required.

Approximate Height (Hands)	Approximate Weight (kg)	Quantity (kg) of HoofKind Complete per day
11 – 12.2	200	1
12.2 – 13.2	300	1.5
13.2 – 14.2	400	2
14.2 – 15.2	450	2.25
15.2 – 16.2	500	2.5
16.2 – 17.2	600	3

The average weight of a level Stubbs scoop (volume 2.6 litres, bowl diameter 23cm, depth 10cm) of Mollichaff HoofKind Complete is 0.45kg)

MOLLICHAFF[®]

HOOFKIND COMPLETE

A complete fibre-based concentrate feed designed for the nutritional support of horses and ponies prone to laminitis.

HoofKind Complete is a highly palatable blend containing a balanced blend of oat straw, alfalfa, fibre pellets, soya oil, vitamins, minerals, trace elements, antioxidants and biotin.

It is low in starch and sugar, high in fibre and does not contain any cereals.

HoofKind Complete provides a low level but high quality

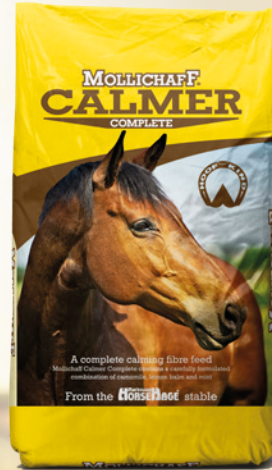
protein and restricted calories and so provides limited, controlled energy from high quality digestible fibre and oil-based ingredients, making it an excellent feed for 'fizzy' horses and good doers, as well as those prone to laminitis.

HoofKind Complete contains a broad spectrum vitamin and mineral supplement, and when fed at the recommended levels to horses at rest or in light work, it needs no further supplementation other than good quality forage such as High Fibre or Timothy HorseHage.

HoofKind Complete contains additional levels of biotin. Independent scientific studies have found that supplementing an average horse's diet with 15mg of biotin per day can greatly increase both the growth rate and the hardness of the hoof. Mollichaff HoofKind Complete has been specifically formulated to ensure that these levels are met.



MOLLIChAFF CALMER COMPLETE



MOLLIChAFF CONDITION COMPLETE



WHY CHOOSE MOLLIChAFF CALMER COMPLETE?

Mollichaff Calmer Complete is a highly palatable, complete fibre feed containing a balanced blend of fibre pellets, oat straw, dried grass, herbs, soya oil, vitamins, minerals, limestone and trace elements. It is suitable for horses and ponies that are prone to nervousness or excitability.

It contains a carefully formulated combination of camomile, lemon balm and mint.

Mollichaff Calmer Complete supplies elevated levels of magnesium as well as vitamins B1 and B12 which are widely thought to help decrease anxiety by exerting a calming influence on horses, along with vitamin E.

Mollichaff Calmer Complete is low in sugar and starch, providing limited controlled energy from high quality, digestible fibre and oil-based ingredients, making it an excellent feed for horses and ponies that are easily excited.

It can be used as the sole concentrate feed as it contains a broad spectrum vitamin and mineral supplement.

Mollichaff Calmer Complete carries the HoofKind logo to show that it is safe to feed to horses and ponies prone to laminitis.

FEEDING GUIDE

The following table is intended as a guide only. Good quality forage should also be offered to complete the diet. Remember that every horse is an individual and should be treated accordingly.

Approximate Height (Hands)	Approximate Weight (kg)	Quantity (kg) of Calmer Complete per day
11 – 12.2	200	1
12.2 – 13.2	300	1.5
13.2 – 14.2	400	2
14.2 – 15.2	450	2.25
15.2 – 16.2	500	2.5
16.2 – 17.2	600	3

The average weight of a level Stubbs scoop (volume 2.6 litres, bowl diameter 23cm, depth 10cm) of Mollichaff Calmer is 0.45kg)

- Always feed at least 1.5% of bodyweight in total food per day (including forage), even to overweight horses and ponies.
- Always weigh feedstuffs, particularly when feeding overweight, excitable horses and ponies or those prone to laminitis.
- Feed dry or damp according to preference.
- As with all new feedstuffs, introduce gradually and increase quantities as required.
- Clean, fresh water should be available at all times.

Mollichaff Condition Complete is a highly digestible, high fibre, high oil and low starch blend which can be fed as a complete concentrate feed alongside good quality forage.

Mollichaff Condition Complete contains a balanced blend of alfalfa, dried grass, oat straw, fibre pellets, barley, soya flakes, soya oil and mint as well as Yea-sacc® and a prebiotic, plus vitamins, minerals and trace elements.

Soya oil is included to provide essential fatty acids to help improve skin condition and encourage a healthy, glossy coat.

Mollichaff Condition Complete includes Yea-sacc® and a prebiotic to help maintain a healthy digestive system.

Mint is also included as a digestive aid and because its taste and aroma are particularly appealing to horses.

Mollichaff Condition Complete is suitable for encouraging weight gain in underweight horses and ponies and can also help to maintain weight and condition in competition horses and ponies.

It can be used as the sole concentrate feed as it contains a broad spectrum vitamin and mineral supplement.

- Always feed at least 1.5% of bodyweight in total food per day (including forage), even to overweight horses

and ponies.

- Always weigh feedstuffs, particularly when feeding overweight or excitable horses and ponies.
- Feed dry or damp according to preference.
- As with all new feedstuffs, introduce gradually and increase quantities as requested.
- Clean, fresh water should be available at all times.

FEEDING GUIDE

The following table is intended as a guide only. Good quality forage should also be offered to complete the diet. Remember that every horse is an individual and should be treated accordingly.

Approximate Height (Hands)	Approximate Weight (kg)	Quantity (kg) of Condition Complete per day
11 - 12.2	200	1
12.2-13.2	300	1.5
13.2-14.2	400	2
14.2-15.2	450	2.25
15.2-16.2	500	2.5
16.2-17.2	600	3

The average weight of a level Stubbs scoop (volume 2.6 litres, bowl diameter 23cm, depth 10cm) of Mollichaff Condition Complete is 0.50kg)

MOLLICHAFF ALFALFA OIL

About Alfalfa

Alfalfa (lucerne) is a legume and is a rich source of highly digestible fibre. Mollichaff Alfalfa Oil is produced from UK-grown, pure alfalfa including the nutrient-rich leaf as well as the stalk of the plant and is dust-extracted.

Alfalfa is a great source of vitamins, minerals and antioxidants including vitamin E and selenium. The high palatability of Mollichaff Alfalfa Oil makes it a fantastic fibre source, even for fussy feeders!

Alfalfa is suitable to feed to horses and ponies prone to laminitis as it contains a sugar level that is considerably lower than grass.



Mollichaff Alfalfa Oil

For Controlled Energy and Condition

Mollichaff Alfalfa Oil is made from pure alfalfa which provides a rich source of highly digestible fibre and high quality protein, mixed with a generous dressing of pure soya oil. It contains an energy level that is similar to that of a medium energy hard feed and is ideal for horses and ponies that require increased condition or energy.

Mollichaff Alfalfa Oil is high in fibre and 'slow-release' energy. It offers a far more natural feed to replace cereals in the diet and as the energy comes from fibre, it will not cause the fizziness or excitability associated with grains.

Alfalfa is naturally low in both starch and sugar. Mollichaff Alfalfa Oil contains NO ADDED MOLASSES. It is suitable for all types of horses and ponies. It carries the HoofKind logo show that it is safe to feed to horses and ponies prone to laminitis but please contact our Helpline for advice on feeding it to horses and ponies with this condition.

Mollichaff Alfalfa Oil can be used as part of the forage ration or in place of hard feed. Good quality forage should also be offered when using Mollichaff Alfalfa Oil as a bucket feed, to complete the diet. Please contact us for additional guidance on more specific levels to feed when using Mollichaff Alfalfa Oil as part of the forage ration to complement an additional hard feed.



MOLLICHAFF DONKEY

Mollichaff Donkey is a highly palatable complete feed containing a balanced blend of dried grass, fibre pellets, oat straw, and soya oil with camomile, mint and lemon balm. It also contains a broad spectrum vitamin and mineral supplement, which includes limestone and magnesium. Magnesium is often deficient in UK soils.

Limestone provides additional calcium for strong bones and healthy growth.

Mollichaff Donkey is low in sugar, starch and energy and carries the HoofKind logo to denote that it is suitable for donkeys, mules, horse and ponies that are prone to laminitis.

When Mollichaff Donkey is fed at the recommended levels, it needs no further supplementation other than good quality forage, or it can be used as a partial forage replacer. At least 1.5% of bodyweight should be fed in total food per day, including forage, even to overweight donkeys.



FEEDING GUIDE

Approximate Size	Approximate Weight (kg)	Quantity (kg) per day bucket fed	Quantity (kg) per day as Total Hay Replacer
Mini	100-150	1/4	2
Standard UK	150-200	1/2	3
Large Breed	200-300	1	4
Large Mules	300+	1-2	4-6

The average weight of a level Stubbs scoop (volume 2.6 litres, bowl diameter 23cm, depth 10cm) of Mollichaff Donkey is 0.50kg)



HorseHage Sponsored Riders

We are proud to be able to support the following sponsored riders:



Emily King



Beverley Brightman



Bert Sheffield



Mary King



Padraig McCarthy



Rosie Howard (Gallopings Acrobatics)



Spencer Roe



Jeni Gilbert

We also supply forage to the Horse of the Year Show and are the Official Supplier of Forage to Equestrian Team GBR. We also support some smaller organisations including the Meirionnydd Special Riding Group; Bryndafydd Animal Assisted Therapy and John Nuttall's award-winning beach donkeys in Lincolnshire plus several small, local

events. The latest addition to Team HorseHage is former international vaulter, Rosie Howard and Gallopings Acrobatics

More information on our sponsored riders can be found on our website at www.horsehage.co.uk



Horses and ponies prone to laminitis.

It is important not to starve horses and ponies prone to laminitis as was once thought, since this can cause further disorders. So if grazing is restricted it is vital that a suitable alternative, fibre-based feeding regime is put in place. Any products from the HorseHage or Mollichaff ranges that carry the HoofKind symbol are suitable to be fed to horses and ponies prone to laminitis. This includes Mollichaff HoofKind Complete, Mollichaff Donkey, Mollichaff Calmer Complete, High Fibre HorseHage and Timothy HorseHage.

Horses and ponies prone to laminitis should be fed a forage that is low in sugar, such as High Fibre or Timothy HorseHage.

Mollichaff HoofKind Complete is a complete fibre feed designed for the nutritional support of horses and ponies prone to laminitis.

RAO

RAO (Recurrent Airway Obstruction), formerly known as COPD (Chronic Obstructive Pulmonary Disease) has much in common with human asthma. It is thought to be an allergic condition that is worsened by trigger factors such as pollen, dust and mould.

Try to avoid haylage that has been sprayed with mould inhibitors as this has been found to increase the incidence of asthma in humans.

Obese horses

If a horse is obese, it should be removed from grass immediately. The diet should be strictly monitored and the horse should be fed 1.5% of its bodyweight in low energy forage a day, Timothy HorseHage is ideal. A broad-spectrum vitamin and mineral supplement should be given in a handful of low-sugar chaff. Veterinary advice should be sought.

Questions and answers

Common myths associated with feeding bagged forage and haylage

Should I feed less HorseHage than hay?

No. Generally speaking you should feed, as a minimum, the same quantity by weight as you would hay, but reduce the quantity of hard feed by up to a third. If the horse is stabled for more than 12 hours a day, you may need to feed up to a third more to keep adequate fibre levels in your horse's diet.

Will my horse eat HorseHage more quickly than hay and become bored?

Some horses will initially eat HorseHage more quickly because it is so palatable and moist, and for this reason we recommend a special small mesh net. However, research shows that after about 2 weeks, most horses revert to their original speed of eating.

How long does HorseHage keep?

Unopened, for up to 18 months, and once opened, it should be used within 5 - 7 days. However, any bags with holes in should not be used. (unless they are used within 5 - 7 days of the hole being made)

How quickly can I change from hay or haylage to HorseHage?

We would recommend that you change over at least a 5 to 7 day period to allow the gut microflora time to adjust. Longer is better.

Choosing forage for horses with specific conditions

Veterans

The older horse has an increased requirement for quality protein. He does not require the high levels of instant energy he needed when he was younger, but still requires a high level of slow-release energy to maintain and increase condition without over burdening the large intestine with soluble carbohydrates.

Forage should be of good quality, and easy to chew, having a good proportion of leaf to stem - this type of forage is more palatable and nutritious, and the horse will eat more of it.

Mollichaff Veteran is recommended for older horses and ponies, and those that are unable to consume long forage and require a complete forage replacer.





Typical Analysis Charts

HorseHage – Typical Nutrient Analysis (dry matter basis)

	Ryegrass	High Fibre	Timothy	Alfalfa	Hay
Energy MJ/kg	9 – 11.5	7 – 10	8 – 10	8.5 – 11	7 – 10
Protein %	9 – 12	7 – 10	8 – 9	12 – 15	6 – 12
MAD Fibre %	32 - 36	34 - 40	35 - 37	38 - 42	30 - 42
Calcium %	0.4 – 0.6	0.4 – 0.6	0.4 – 0.6	0.8 – 1.0	0.25 – 0.6
Phosphorus g/kg	2 – 3	2 – 3	2 – 3	2 – 4	1.7 – 3
Beta Carotene mg/kg	100	50	50	150	*
Vitamin E mg/kg	10	10	10	12	*
Vitamin B1 mg/kg	2.0	2.0	2.0	2.0	*
Vitamin B2 mg/kg	3.0	3.0	3.0	4.0	*
Vitamin B6 mg/kg	6.0	6.0	6.0	7.0	*
Niacin mg/kg	20	20	20	25	*
Pantothenic Acid mg/kg	15	15	15	30	*
Folic Acid mg/kg	0.6	0.6	0.6	0.8	*
Biotin mg/kg	0.06	0.06	0.06	0.075	*
Dry Matter %	55	60	60	55	85 – 92
Sugar %	<5	<5	<5	<5	8 – 12
Starch %	1 - 2	1 - 2	1 - 2	1 - 2	1

The figures represent typical samples. Individual analyses must be undertaken on particular samples for complete accuracy.




* After six months storage, most hay samples have negligible levels of vitamins.

The MolliChaff Range – Typical Nutrient Analysis

	Calmer Complete	HoofKind Complete	Condition Complete	Original	Extra	Herbal	AppleChaff	ShowShine	Veteran	Alfalfa Oil	Donkey			
Energy MJ/kg	9.8	9.0	10.5	7.5	8.0	7.5	7.5	9.5	9.0	10.5	7.3			
Protein %	7.5-8.5	5.5-6.5	10.0-12.0	4.0-6.5	4.0-6.5	4.0-6.5	4.0-6.5	4.0-5.5	7.8-9.0	14.0	5.5-6.5			
Crude Fibre %	25	28	19	24	22	24	24	23	23	33	27			
Oil %	5.7	7.5	6.0	0.8	0.8	0.8	0.8	9.0	4.5	9.0	3.5			
Ash %	8.0	8.5	9.5	10.5	12.5	9.5	10.5	9.0	10.0	7.0	9.0			
Starch %	4.2	2.7	8.0	0.5	0.5	0.5	0.5	0.6	1.5	2.8	2.5			
Sugar %	7-8	6-8	8.5-9.5	16-21	16-21	15-19	17-22	12-15	10.5-15	4.6	6.3-7.2			
Calcium %	1.0	1.0	1.1	1.2	1.8	1.0	1.3	1.2	1.3	1.1	1.0			
Phosphorus %	0.35	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.35	0.17			
Sodium %	0.30	0.15	0.30	0.20	0.46	0.20	0.20	0.15	0.25	0.1	0.45			
Potassium %	1.3	1.2	1.4	1.9	1.9	1.9	1.9	1.5	1.8	2.2	1.3			
Magnesium g/kg	3.1	2.9	3.6	Background levels							2.9			
Vitamin A iu/kg	10,000	11,250	12,500	None Added	7,000	None Added	None Added	None Added	5,600	Background levels from forage	10,000			
Vitamin D iu/kg	1,200	1,150	1,500		1,000				575		1,200			
Vitamin E mg/kg	200	100	250		200				50		200			
Biotin mg/kg	0.5	6.0	0.6		0.06				3.0		0.5			
Vitamin B1 mg/kg	100	15	125		10				7.5		100			
Vitamin B2 mg/kg	30	10	37.5		5				5		30			
Vitamin B6 mg/kg	30	Background levels from forage	37.5		5				Background levels from forage		30			
Vitamin B12 mg/kg	0.20		0.25		0.005						0.20			
Folic Acid mg/kg	20		25		1						20			
Niacin mg/kg	20		25		5						20			
Pantothenic Acid mg/kg	20		25		5						20			
Choline Chloride mg/kg	100		125		60						100			
Copper mg/kg	30		35		40						36	20	5.0	35
Zinc mg/kg	100		100		150						100	50	15	120
Manganese mg/kg	100		100		150						115	50	30	120
Selenium mg/kg	0.36		0.35		0.50						0.25	0.20	0.05	0.35
Iron mg/kg	80		100	150	100	50	45	80						
Cobalt mg/kg	0.20		0.20	0.25	None Added	0.10	0.1	0.20						
Iodine mg/kg	0.70		1.00	0.625	1.00	0.50	0.1	0.60						
Dry Matter %	84		84	85	76	76	76	76		78	84	88	84	




*Due to the natural variation in some of the ingredients used in the above products, a typical range of nutrient values is given. For accurate analyses, please see product labels.

NUTRITIONAL REFERENCE

	Suitable for horses & ponies prone to laminitis	Dust free	High in fibre	Contains alfalfa	Low in sugar	Forage replacer	Good for weight gain	Suitable for good doers	High in oil	No added molasses	Complete fibre-based feed
		✓	✓	✓			✓		✓		✓
	✓	✓	✓		✓			✓	✓		✓
	✓	✓	✓	✓	✓			✓	✓		✓

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	✓	✓	✓		✓	✓		✓			✓
	✓	✓	✓		✓	✓		✓			✓
		✓	✓	✓	✓	✓	✓				✓

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		✓	✓						✓		
		✓	✓	✓		Partial			✓		
	Please seek further advice when feeding to horses & ponies prone to laminitis	✓	✓	✓	✓	Partial	✓		✓	✓	
		✓	✓	✓	✓	Partial		✓			✓

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