

performance feed from Speedi-Beet®

- Suitable for all Competing Horses

Produced under the BETA UFAS NOPS Code

- Energy without Fizz
- Calories for Competition & Condition
- Plant Extract to Maintain Joint Integrity
- Profiled Energy Release
- High Quality Protein Source
- Quality Fibre Source



BHF Feeding Recommendations

With a single forage source (e.g Hay)

	400kg	500kg	600kg
Moderate to Hard Exercise: Daily Feed Intake/kg			
BHF Ultimate Performance™ Mix	4.0	5.0	5.5
Forage	5.5	7.5	8.5
Hard to Extreme Exercise: Daily Feed Intake/kg			
BHF Ultimate Performance™ Mix	5.5	6.5	7.0
Forage	4.0	5.5	7.0

With Forage Replacers/High Fibre Feeds

	400kg	500kg	600kg
Moderate to Hard Exercise: Daily Feed Intake/kg			
BHF Ultimate Performance™ Mix	3.0	3.5	4.0
High Fibre eg. Speedi-Beet®/Fibre-Beet®	1.75	2.0	2.5
Forage	4.0	5.5	7.0
Hard to Extreme Exercise: Daily Feed Intake/kg			
BHF Ultimate Performance™ Mix	4.5	5.0	5.5
High Fibre eg. Speedi-Beet®/Fibre-Beet®	2.75	3.0	3.5
Forage	2.5	3.5	5.0

The above are guidelines only

Typical Analysis (as fed)

Ultimate Performance™ Mix

Protein	12.5%
Oil	5.25%
Fibre	9.0%
Ash	7.0%
Digestible Energy (mj/kg)	13.0

Approved Stockist

Formulated to include **BIOPLEX** and **SEL-PLEX** from Alltech



British Horse Feeds

Makers of
Speedi-Beet® **Fibre-Beet®** **Natural Country™**
Quick Soaking Sugar-beet Flakes Quick Soaking Conditioning Feed

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From the makers of Speedi-Beet



British Horse Feeds

Natural Country™
ULTIMATE PERFORMANCE™ MIX



Introducing a the makers of



New feeds should be introduced in small amounts rising to the recommended levels over a few days.

Each horse is an individual. The above examples are for guidance only. Monitor the horse's condition and weight and adjust the amount of feed given accordingly.

British Horse Feeds

- Carefully selected, traditional feedstuffs
- Includes Soya, Peas and Linseed as an aid to condition
- Micronized cereals to improve small intestine digestion
- Good levels of highly digestible starch to fuel performance, without loading the hindgut
- Fibre profile (contains Speedi-Beet) to complement that of forage
- Profiled Energy Release: Energy rich nutrients absorbed along the whole of the gut.
- Protein levels formulated to provide optimum levels of essential amino acids, in particular lysine and methionine that are limiting in forage
- Added chelated minerals to enhance those found in feedstuffs
- A full range of vitamins and trace elements
- Selected oil source to provide optimum levels of essential fats, including OMEGA 3 and OMEGA 6 fatty acids
- Feedstuffs selected to provide antioxidant activity to maintain the integrity of the gut wall.
- Contains plant extracts to help maintain hindgut microsystems and skeletal joint function
- This feed is produced under the UFAS (Universal Feed Assurance Scheme) BETA NOPS (Naturally Occurring Prohibited Substances) Universal Feed Assurance Scheme and demonstrates our commitment to stringent quality management procedures that have been undertaken during every step of sourcing, storage, transport and manufacturing.

Q What is a Performance Feed?

A Simply it is a feed for horses that perform. There are feeds available that are designed for competition, endurance or racing, that provide rapid release or slow release energy and are tailored to an individual activity. BHF's Performance feed has been specifically formulated around its "energy profile" to provide a versatile feed for any horse that regularly undergoes medium to heavy exercise.

Q What sort of exercise do you mean?

A Apart from racing, which is a highly specialised discipline, most horses will mix their activity. Whether they are show jumpers, point-to-pointers, or three day Eventers they will use muscular activity that can be fuelled by either glucose or fatty acid metabolism, but more usually both. By delivering a comprehensive mix of both, BHF provide a performance feed that will cover most areas of high activity.

Q How does this work?

A We provide a carefully formulated blend of starch and sugars, oils and fibre types that optimise the energy generation biochemical cycles within the body. Levels of sugar and starch are formulated to ensure optimum absorption in the small intestine, generating glucose, without flooding the hindgut, oils provide natural antioxidants to help maintain muscle condition and fibres are carefully selected so fermentation can start in the small intestine (pectins and soluble fibres) and extend along the whole gut. This has a probiotic effect on the microbe populations and so optimises the gut environment for correct fermentation patterns. This means that the horse receives a good supply of energy from a mix of glucose, volatile and longer chain fatty acids.

Q How does this suit every type of activity?

A Skeletal muscle can be further classified depending on its muscle fibre types. There are several types including Types I and IIa, of high oxidative capability and Type IIb, which has high anaerobic activity. It means that these fibres can utilise different nutrients more efficiently than others, so some can utilise fats, some glucose, and some can utilise volatile fatty acids to generate energy for muscle contraction. Types I & IIa are associated with low, but prolonged, levels of activity and endurance respectively and Type IIb with rapid but short spurts. Training a horse for a particular regime will develop some of these types more than others, thus "setting" the nutrient requirements. However all muscle fibre types are present and all need to be fuelled, especially as most Competition is a mix of a variety of activities.

Q How do you ensure the different types of activity are catered for?

A Simply by varying the amount given. The fibre fraction of Performance Feed has been formulated to complement that of forage – as in all BHF products – and so, by increasing the amount of Performance Feed given you are increasing the amount of glucose potential, without markedly reducing the fibre fraction. In this way you can emphasise from short hard exercise, through different levels of activity within one exercise period, through to endurance.

Q What about the different protein requirements of different exercise.

A It would seem obvious that a horse that undergoes strenuous muscular activity needs more protein than one that has a lighter regime, even though for a longer time; it would then need a higher protein feed, wouldn't it?

No. Despite what everyone believes, the protein requirement of exercise is very little, and that for building up muscles during training not much more. The majority of protein eaten goes to replace that lost in the gut wall (through being constantly worn away by food passage) and skin and hair (through shedding). At 12.5% protein Performance Feed will supply good levels whatever the activity.

Q Will I improve the muscles by feeding high levels of Performance Feed?

A No. Muscle size and strength is only improved by exercise. Peculiarly it is damage to the muscle fibres from exercise that promotes muscle development. That is, a damaged fibre will be repaired and therefore become thicker. To do this it will take what protein it needs and, as long as there is an adequate supply no extra feeding is needed.

Q You provide the correct energy and protein for heavy exercise. What about the joints?

A This is a concern to anyone who exercises their horse to high levels. Joints have an in-built mechanism to combat physical damage. When the cartilage becomes damaged increased levels of glycosaminoglycan – which is derived from glucosamine and chondroitin – are found in the fluid of the joints and effect a repair, which is why some people give their horses these products. However joints are more likely to be damaged by some fermentation products from the hindgut that are absorbed and attack the cartilage.

To stop this BHF formulates rations so that the nutrients that can be converted to toxic fermentative products are unlikely to reach the hindgut (therefore, for example, a moderate protein level), and also to include yucca extract that mops up these products, denying them the opportunity to be absorbed.

The combination of yucca and carefully formulated rations to include the correct energy profile, protein levels and oils high in omega fatty acids, will help maintain joint function at a number of levels.

Q How so?

A Joint function, as with any metabolic and physiological system, is a complex balance of biochemical pathways. As with any biological system it shifts in emphasis depending on chemical (nutrient) supply and with external factors imposed on it. Thus joint function is not only affected by mechanical stress but physiological and oxidative stress. As mentioned we have added yucca, and deliberated formulated rations to reduce physiological stress, but we also include a wide range of different types of antioxidants to help combat oxidative stress.

Q What is oxidative stress?

A When any animal undergoes exercise its oxygen requirement rises as it is needed to fuel muscle activity as well as its normal biochemical functions. However no metabolic process is 100% efficient and the oxygen releases particles known as free radicals. These free radicals damage, both physically and biochemically, a wide range of tissues, including organ linings, cell membranes, muscle fibres etc. If we add antioxidants, such as plant extracts, vitamin E and selenium, we can help maintain the integrity of these tissues.

Q Is that why you include Sel-Plex?

A Yes. We include a range of minerals and trace elements as bioplexes or chelates. Naturally occurring minerals and trace elements do not exist in animals in their "free form", but bound with amino groups (amino acids are the base units of protein), commonly as enzymes or co-factors. By providing them in the feed as a similar form the minerals are more available, more readily absorbed and help improve the efficiency of the biochemical systems in which they are involved.

Q Do you add herbs?

A As well as Yucca extract we have added a herb blend to complete the range of antioxidants, and to complement the activities of Vitamin E and selenium. Equally as important, as a great many herbs can have antagonistic effects and can interfere with veterinary medication, we have selected those herbs that have no reported negative effects.

Q So are you producing a complete performance diet?

A As far as we are able we have produced a feed that, when fed correctly in conjunction with quality forage, will provide all the necessary nutrition for a performing horse.

Q Do I need to feed anything else?

A It's not necessary but it is always dependant on how you like to feed your horse. Many people like to use cereals, such as bruised oats, or high value forage like alfalfa to broaden the feed range and make up variation found in forage. In such cases we would recommend feeding Speedi-Beet® or Fibre-Beet®, proven high energy forage replacers. Every horse is an individual and dietary preferences need to be built into the diet.

However, if you build your ration around BHF Performance Feed, quality forage and perhaps other quality feed stuffs, you'll be onto a winner.

* Figures quoted are based on dry weight of Fibre-Beet®