

# Speedi-Beet®

Quick Soaking Beet Pulp Flakes



## The World's No.1 Quick Soaking Beet Flakes

Available around the world in 24 countries, Speedi-Beet is fast, convenient and is the healthy option for thousands of horse owners who now use the product and rely on its benefits.

### Its key benefits are:

- Quick soaking and Convenient
- Unmolassed - 95% SUGAR FREE
- Ideal Fibre source for horses prone to laminitis
- Low sugar / starch
- High digestible fibre
- Non-GM
- Rapid re-hydration
- Non-heating
- Slow release energy
- Excellent complementary feedstuff to hard feed
- Extremely palatable (ideal for fussy eaters)
- Excellent top dressing.
- Improved Nutrient Availability. Unique patented processing allows release of nutrients prior to hind gut fermentation
- Stimulates beneficial gut bacteria
- Excellent source of pectins, betaine and non-structural glucose.
- More hygienic than traditional sugar beet feeds, due to the quick soaking time.
- Speedi-Beet is made from pure unmolassed sugar beet pulp, no additives or flavours.



### CONTAINS THE FOLLOWING RAW MATERIALS:

Speedi-beet Flakes,



TYPICAL ANALYSIS	% Unless Indicated
Fresh Weight Basis Before Soaking	
Dry Matter	90.0
Protein	9.0
Oil (B) Acid	0.7
Fibre (crude)	16.0
Ash	9.0
NDF	38.2
Starch	Trace
Total Sugar	5.0
Energy DE mj/kg	12.0
<b>Minerals</b>	
Calcium	0.3
Phosphorus (total)	0.10
Magnesium	0.3
Manganese mg/kg	45
Zinc mg/kg	19
Iron mg/kg	762
Copper mg/kg	3
Potassium	1.14
Selenium mg/kg	0.06
Iodine mg/kg	<0.1
Salt	0.30
Sodium	0.24
<b>Amino Acids</b>	
Lysine	0.45
Methionine	0.15
Threonine	0.40
Cystine	0.14
Gycine	0.47
Tryptophan	0.10
Arginine	0.30



Speedi-Beet® is a registered trademark of l'Anson Brothers Limited Patent No: GB2341307A



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## PREPARATION

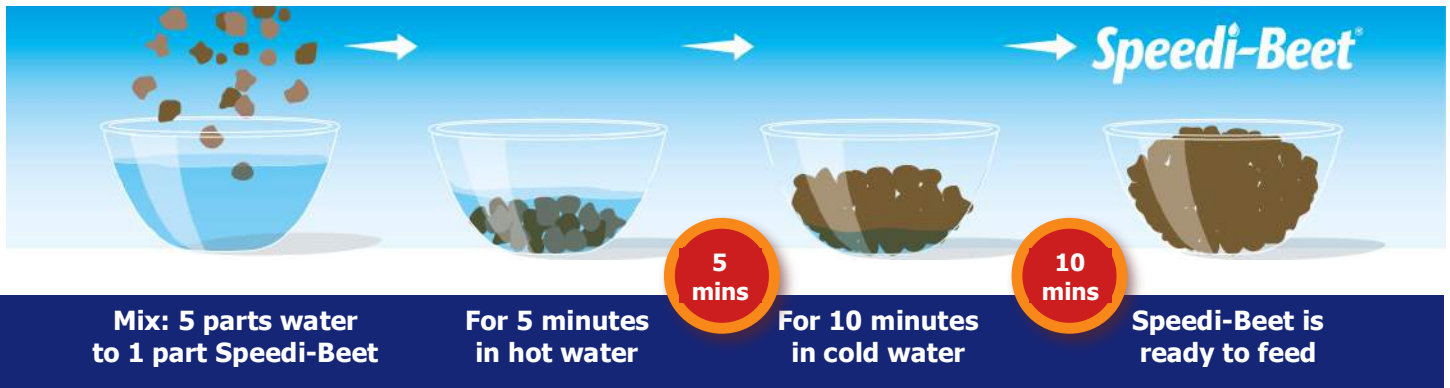
**Ready in**

### Preparing Speedi-Beet couldn't be easier.

Simply mix 5 parts of water to 1 part of Speedi-Beet by weight. That's about 2½ parts of water to 1 part of Speedi-beet by volume.

Leave to soak for 9 minutes using cold water or 5 minutes using hot water (fantastic in the winter to warm your horse!).

Once Speedi-Beet has been soaked it can be fed straight away or it can be kept in a cool environment, enabling you to still prepare in advance if you wish.



## WHAT IS SPEEDI-BEET & HOW DOES IT WORK

Speedi-Beet is made from pure unmolassed sugar beet pulp which is a by-product of the sugar beet industry. Sugar beet is grown in Europe and North America as an alternative to sugar cane which is grown in tropical and sub-tropical regions of the world. It is mainly grown as a source of table sugar for human consumption. Sugar Beet accounts for 30% of the worlds sugar production.

The sugar beet harvest in the UK usually takes place from September onwards with the beet being delivered into one of several sugar beet factories situated throughout eastern England. After cleaning, the beet is sliced into cossettes by a machine that resembles a kitchen grater and as much surface area is presented to maximise the sugar extraction process as possible. The sliced sugar beet is mixed with hot water and the sugar is extracted.

After the water has been squeezed out, the pulp is dried and usually molasses is added back where upon the pulp is either used in its shredded form or it is pelleted. Speedi-Beet is manufactured from beet pulp which has not had molasses added to it and is therefore around 95% sugar free. The beet pulp then undergoes a further patented process and is then cooked utilising our process, micronization. This involves heating the dried beet pulp at relatively low temperatures for a short time using infra-red heat and prevents the protein from denaturing allowing for quicker release of nutrients into the horses digestive system. The micronizing process also imparts flavour into the beet pulp so the product does not require the use of added molasses i.e. sugar for palatability. The beet pulp is then flaked to increase surface area to aid rapid water absorption.

That's why Speedi-Beet can be prepared in under 10 minutes instead of the usual 24 hours for traditional sugar beet pulp.



# AN INTRODUCTION TO FEEDING SPEEDI-BEET

DO NOT FEED DRY - Refer to mixing and preparation guide for more information. Unlike other sugar beet products, Speedi-Beet will absorb up to 5 times its own weight as water. The bulking capacity, however, is mediated by its \*patented production process and will improve the inherent digestion in the horse.

It is therefore recommended that concentrate allowances should be reviewed after a few days to ensure the animal does not gain weight too fast.

Additional advice can be found in our "frequently asked questions" section where our equine nutritionist, Dr. Tom Shurlock provides answers to the most common questions.

## Example feeding recommendations

The following recommendations are for guidance only. If replacing conventional sugar beet with Speedi-Beet® direct substitution can be carried out. Because of improved nutrient availability it will be necessary to adjust current feeding regime accordingly.

## FEEDING GUIDE

Where Speedi-Beet® is introduced care should be taken to offer in increasing amounts, initially, to achieve recommended levels. As Speedi-Beet® is highly palatable beware of overfeeding.

As a guide horses require 2% of body weight as feed per day. At least 25% must be fed as forage, or high fibre alternatives.

Speedi-Beet can be fed up to 30% of the daily feed, depending on the circumstances.

### As a forage replacer

When forage is unavailable, mix Speedi-Beet and chaff in a ratio of 1:3, soak prior to feeding and feed at the following rates:

Exercise	Approx. Size (hh)	Body Weight (kg)	"Chop 'n' Chaff" (kg)
Light	9.0 - 10.0	200	2.0 - 2.5
	13.0 - 14.0	400	4.0 - 4.5
	15.0 - 16.2	600	6.0 - 6.5
Medium	9.0 - 10.0	200	2.5 - 3.5
	13.0 - 14.0	400	6.0 - 6.5
	15.0 - 16.2	600	8.5 - 9.5

### As a feedstuff

Up to 20% of concentrate allowance, either as commercial feed or cereals can be substituted with Speedi-Beet. Adjust feed allowances accordingly.

### As a palatant

Up to 5% of concentrate allowance as a top dressing for hard feeds or where palatability is a problem.

### As a conditioner

Use 10% of concentrate allowance, mixed into the concentrate to maintain optimum condition in roughed off horses or to fill out of condition horses.



## As a nutritional Aid

In cases where early grass growth leads to conditions of hind gut acidity, Speedi-Beet can be fed prior to grazing to reduce grass intake. Speedi-Beet is high in pectins and low in starch, allowing correct microbial fermentation and reducing the effect of acidosis related problems.

Exercise	Approx. Size (hh)	Body Weight (kg)	Hard Feed (kg)	Speedi-Beet (kg)
Light	9.0 - 10.0	200	1.0	1.0
	13.0 - 14.0	400	1.5	1.5
	15.0 - 16.2	600	2.5	2.5
Medium	9.0 - 10.0	200	1.5	1.5
	13.0 - 14.0	400	2.5	2.5
	15.0 - 16.2	600	4.25	4.25

## LAMINITIS

### Feeding horses at high risk of Laminitis

Advice from the scientific committee of the laminitis trust

**DO NOT FEED DRY** Refer to mixing and preparation guide for more information.

Further information on laminitis is available at [www.laminitis.org](http://www.laminitis.org)

Be safe and sure weigh all feedstuffs



Fat animals are at high risk of laminitis and to achieve a gradual weight reduction to Condition Score 3 may require half of the below quantities to be fed. Stabling or use of a grazing muzzle is also necessary. Only Laminitis Trust Approved feeds, limited long forage or grazing are recommended to complete the diet. A nutritional supplement may be used, consult your veterinary surgeon.

Examples of suitable diet	TOTAL FEED PER DAY	
	300kg Body weight PONY	500kg Body weight HORSE
<b>STABLED HORSE No Grazing</b>		
Speedi-Beet (dry weight)*	0.75kg	1.5kg
Dried Alfalfa	1.0kg	2.5kg
Oat Straw/Alfalfa Mix	2.0kg	-
Good Quality Hay	5.5kg	7.0kg
<b>4 HOURS GRAZING On Unfertilised Pasture</b>		
Speedi-Beet (dry weight)*	0.75kg	1.5kg
Dried Alfalfa	-	1.0kg
Oat Straw/Alfalfa Mix	1.0kg	1.0kg
Good Quality Hay	3.5kg	5.0kg



## FREQUENTLY ASKED QUESTIONS

### What is Speedi Beet?

Speedi-Beet is a pure unmolassed sugar beet pulp treated by a patented process that includes Micronization.

### What is Micronization?

Micronization is a process where infra red rays causes the water molecules present in all feedstuffs to rapidly vibrate and heat up, causing water vaporisation and expansion. The almost instantaneous heating and vaporisation disrupts fibre, including that encircling the cells allowing "locked-in" nutrients to become available for subsequent digestion.

### How does Speedi-Beet soak so quickly?

Once sugar has been extracted the pulp is dried and compressed into dense pellets. Water can soak through the closely impacted fibre only very slowly. With Speedi-Beet the manufacturing process forces the fibres apart, allowing greater accessibility to water. It's like cardboard converted to blotting paper.

### Why does Speedi-Beet have greater nutrient availability than beet pulp?

Not only does the manufacturing process of Speedi-Beet force fibres apart it also disrupts them. Non-fibrous nutrients that were encapsulated by fibre are now available to the digestive enzymes and the available surface area of the fibres is increased allowing more gut bacteria to attack and ferment them.

### What are the correct proportions for soaking?

The recommended proportion is one part of Speedi-Beet to five parts of water by weight. For example 250g of Speedi-Beet should be soaked in 1.25kg (or 1.25litres: 1litre of water weighs 1 kg) of water. The amounts aren't too critical. When first using Speedi-Beet, weigh out the amounts and judge the amount to scoop for subsequent feeds.

### Does it matter if I use too much water?

No. Speedi-Beet can soak up to at least seven times its own weight, more than sugar beet pellets. The final mix will be a bit sloppier, but it is a good method for getting extra water into your horse.

### Can I prepare enough for two feeds (i.e. over 24 hours)?

Yes. There is no problem, except perhaps during very hot, humid periods where there may be a slight risk from mould growth. This, though, is true for all feeds. The nutrients will remain unaffected.

### Can Speedi-Beet cause Colic?

As mentioned in the previous point there is little swelling when Speedi-Beet is soaked, either before feeding or in the stomach. The problem with sugar beet pellets is the slowness of soaking. If fed dry the outside will swell up with water but the centre will remain impacted for a considerable time. If incompletely soaked, or fed dry, this impaction may cause gut motility problems that lead to Colic. Speedi-Beet soaks quickly and regularly and turns into a friable product that can flow easily along the gut.



## Won't the sugar cause problems?

Sugar beet pulp may be molassed and can contain up to 20% sugar. Speedi-Beet is only manufactured from unmolassed beet pulp, with typical levels of 5%. This sugar (sucrose, 50% glucose and 50% fructose) is not only highly digestible but also (due to the manufacturing process) highly available, and is entirely absorbed in the small intestine. In fact sugar absorption is essential to help active amino acid (protein) absorption across the gut wall. Problems may occur if too much sugar (or starch or fructans) is fermented in the hindgut, but this will not occur with Speedi-Beet.

## Is this why it is good for laminitis?

Yes. One of the many causes of laminitis is thought to be due to too much acid production (especially lactic acid) in the hindgut. Lactic acid is absorbed but cannot be metabolised as quickly as other fermentation products such as the volatile fatty acids. Its build up causes conditions in the body that can lead to laminitis. In addition, acid conditions in the gut can change the microbial population and this may lead to toxic fermentation products.

Fermentation of Speedi-Beet produces good levels of volatile fatty acids, but levels of lactic acid lower than hay or oat fibre.

## What about Cushings Syndrome?

Cushings Syndrome is associated with hyperglycaemia (too much glucose circulating in the blood) and abnormal patterns in plasma insulin. It is due to aberrations in the pituitary gland. As mentioned before the glucose levels in Speedi-Beet are low and will be largely used in the gut wall to help protein absorption. Levels absorbed will not affect the syndrome.

## Is this the same for insulin resistant (IR) horses?

The sugar in Speedi-Beet is only 50% glucose; fructose will have no direct effect on insulin. The amounts of glucose, from Speedi-Beet, circulating in the bloodstream would have a negligible effect on overall levels.

## All the same won't I be better off not feeding Speedi-Beet?

Not necessarily. All feedingstuffs contain sugars, or chains of sugars (e.g. starch). In fact, at around 5%, Speedi-Beet has lower total sugars than oat feed (13%), Grass (11%), Alfalfa (8%) and most other feedstuffs.

If you are concerned, after soaking Speedi-Beet squeeze out the excess water and pour off. The sugar that had dissolved in the water will therefore be discarded. Trials have demonstrated a 60% reduction in sugar content, with only 1 "wash".

## Can I use Speedi-Beet to put weight on my horse?

Yes. Speedi-Beet can be added to any dietary regime. If put in over and above your horse normal diet, he will improve his weight and condition. Conversely it can be used as a top dressing to increase the intake of other feeds, or can be substituted for a less nutritious feedstuff. The nutritional profile of Speedi-Beet (in terms of protein, energy, vitamins and trace elements) will fit easily with any combination.



## Can I use Speedi-Beet to help lose weight?

Yes. Strange as it may seem, after the answer to the above point, it is possible to use Speedi-Beet to reduce weight.

Once soaked Speedi-Beet is quite bulky. Feeding this before turn out, or before providing forage, will make your horse feel quite full. As horses are trickle feeders they will tend to graze less and more slowly. You can feed him less and he will lose weight without losing condition. When he achieves the correct weight, feed the Speedi-Beet with his meals and intake will increase.

## Can I feed Speedi-Beet to a convalescent horse?

Yes. Speedi-Beet can be fed in any situation. Its soaked bulk, if fed before other feeds will increase subsequent feeding time and allay boredom; its palatability will also help mask the taste of any medication introduced.

## Is Speedi-Beet heating? Can I feed it to a "fizzy" horse?

Speedi-Beet has a lower overall sugar content than most other feedstuffs. The sugar (Glucose and fructose) is very easily absorbed and the majority will be used in the gut wall to aid amino acid and peptide (protein) uptake. The fibre profile, although readily available for microbial activity, is such that it is fermented to products similar to those found in hay fermentation in the hindgut. Other fibres, such as pectins, can be fermented higher up the gut releasing beneficial end products. This means that although Speedi-Beet has high availability of nutrients and energy they are released, in a controlled manner along the whole length of the gut. There are no sudden peaks of glucose or nutrient overload, which are causative factors in heating and "fizziness".

## My horse is very active. If I feed Speedi-Beet won't he receive too little energy. Shouldn't I be feeding cereals?

The horse has evolved to utilise fibre as its main energy source. In the wild he'll graze on poor quality grass and avoid too much exercise, simply because he won't have the energy. Now domesticated, we can put demands on him that require much higher levels of energy expenditure. Cereals, especially when micronized to improve starch digestibility, are the traditional method of supplying extra energy, rapidly. But Speedi-Beet will provide a controlled release of fermentation energy, at higher overall levels than other forages, and even some cereals. It can replace some or all cereal energy, depending on the amount of the horse's activity.

## Can I feed Speedi-Beet to a senior horse?

Yes. Once soaked it is palatable and easy to eat - even if your horse is missing teeth (it requires little chewing)- and the greater energy nutrient and energy availability will be of tremendous benefit. As horses get older their digestive efficiency declines and so a readily digestible feedstuff, like Speedi-Beet, is ideal.

## Can I feed it to young horses, foals and mares?

Yes. The fibre profile is ideal for all ages and states, and the high availability of the other nutrients make Speedi-Beet a safe and concentrated feedstuff. The importance of feeding any horse is to provide the correct profile of nutrients at each stage of the horse's life. The versatility of Speed-Beet means it can fit into any feeding regime.



## What can I feed Speedi-Beet with?

As mentioned previously Speedi-Beet can be fed in conjunction with any feedstuff you would normally feed your horse. Commercial cubes, straights and forages can all be partially substituted with Speedi-Beet, depending on the horse's requirements and activity.

## How much Speedi-Beet can I feed my horse?

This is a bit like "how long is a piece of string?" We would recommend, as a general guideline, 100g of Speedi-Beet (dry weight) for every 100 kg of horse weight - e.g. 0.25 kg for a 250-300 kg pony, 0.5 kg for a 500-600 kg horse. However the important factor, as with feeding any material, is observation. Start with these levels and adjust them according to the horse's general condition and activity. The most important thing is to provide plenty of forage. Adding Speedi-Beet should initially be at the expense of other straights, unless specific results (weight gain, high levels of activity etc.) are required.

## I don't feed sugar beet. Why should I?

The fibre profile of sugar beet is ideal for horses. Equally divided between cellulose, hemicelluloses and pectins, beet provides fibres that can be fermented along the whole gut length at different rates, as well as providing slowly fermented fibre and much needed bulk.

Fibre is an extremely complex range of  $\beta$ -linked carbohydrates that varies between different plant species. The profile in sugar beet is such that microbial fermentation (the only way animals can utilise fibre) in the gut gives the right proportions of energy rich nutrients for the horse.

## Why is Speedi-Beet approved by The Laminitis Trust?

The major nutritional cause of Laminitis is the microbial fermentation of non-fibrous carbohydrates in the hindgut. Sugar, starch (cereals, oilseeds, pulses etc.) and fructans (grass, alfalfa) reaching the hindgut are fermented by some microbes that are usually present in very low numbers. Their fermentation end products, including lactic acid (a major suspect in Laminitis) create a microenvironment that benefits them. Within a very short time they become the dominant species, disrupting the integrity of the hindgut and producing increasing amounts of adverse products such as lactic acid.

Speedi-Beet contains negligible amounts of starch; the sugar is highly available (due to the micronizing process) and is absorbed in the small intestine. There are no fructans. Therefore there is nothing in Speedi-Beet to disrupt normal hindgut function.



## ABOUT SPEEDI-BEET FROM BRITISH HORSE FEEDS

Speedi-Beet is manufactured by British Horse Feeds, which is a division of the family owned business of IAnson Bros Limited.

Since its inception in 1900, I'Ansons has supplied farmers in Yorkshire and the North of England with high quality animal feeds from the small market town of Masham at the foot of Wensleydale in the Yorkshire Dales.

Now one of the UK's most successful specialist suppliers of farm feeds, Micronized ingredients and horse feeds, with customers in 26 countries worldwide, I'Anson Brothers Ltd is an independent, fourth generation, family-owned and family-managed company, still based in Masham.

The company has been micronizing , (the infrared cooking technology used in the production of Speedi-Beet) since the 1970s to and is recognized as being at the forefront of this type of technology.

The company operates a modern advanced manufacturing mill and to demonstrate this it is accredited to a number of internationally recognized assurance schemes including the Universal Feed Assurance Scheme (UFAS) and the BETA NOPS code for Reducing the Risk of Disqualification from Naturally Occurring Prohibited Substances in Feed. The site is also completely medicines free.

British Horse Feeds work closely with the Laminitis Trust to support their vital work and also produce two excellent feeds approved by trust; Speedi-Beet and Fibre-Beet.

Both feeds are approved by the Laminitis Trust thanks to their high fibre, low sugar content.

British Horse Feeds' development, production & sale of the internationally acclaimed Speedi Beet was awarded the Queen's Award for Enterprise in the Innovation category 2008. The award recognises the development of the revolutionary quick-soaking sugar beet feed Speedi-Beet, which has become a market leader in the equine feed sector.



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