

Denkamilk



G R O W I N G T O G E T H E R



Milk replacers for healthy calf rearing



Denkavit is the specialist in feeds for young animals. Thanks to our extensive research, the Denkamilk products meet the highest quality requirements. The Denkavit laboratory and research farms play a key role in the continuous improvement of existing products and the development of new ones. As a result of many years of world-wide exports we have acquired a vast knowledge when it comes to calf rearing under various climatic conditions. You can rely on Denkavit as your number one supplier of top quality milk replacers for healthy calves.

Special features of Denkavit milk replacers include:

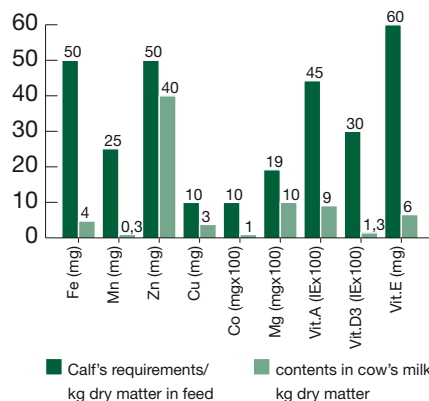
- carefully selected high quality raw materials
- excellent solubility
- attractive taste resulting in eager consumption
- high degree of safety
- excellent digestibility
- suitability for virtually all feeding systems

Milk replacers versus cow's milk

Continuous genetic improvement in dairy cattle has led to a higher production of milk with higher contents of fat and protein. The levels of vitamins, minerals and trace elements in cow's milk have not increased accordingly. This presents a health risk to young calves. Deficiencies of magnesium, copper or iron often occur, leading to hair discoloration, anaemia etc.

Due to the high percentage of fat in cow's milk the digestion of fat is easily disturbed, especially at elevated infection pressure. The oversupply of fat results in poor consumption of concentrates and roughage, slowing down rumen development and eventually affecting post weaning growth. This complicates weaning at the usual age. Moreover, the use of cow's milk increases the risk of spreading animal diseases such

Essential deficiencies in cow's milk



as paratuberculosis. The use of a high quality milk replacer will avoid such problems.

Denkavit calf milk replacers provide the calf with all the energy, proteins, vitamins, minerals and trace elements it needs, thus preventing any deficiency symptoms. However, there are several other reasons why Denkavit milk replacers are regarded as the safest and most economic products for rearing calves.

Denkamilk offers more safety

Bearing in mind the susceptibility of calves, Denkavit pays a lot of attention to the development of products without using skimmed milk powder. Although skimmed milk powder is considered to be an excellent raw material, it often leads to digestive disorders in young ruminants. In many cases casein does not properly coagulate in the abomasum. Since no coagulation process is involved in Denkamilk products, there is less risk of digestive disorders.

An extensive study amongst calves and lambs showed that in the first two weeks of life diarrhoea occurred significantly less frequently and was less serious amongst animals fed with whey based products than amongst those fed with a milk replacer containing skimmed milk powder.

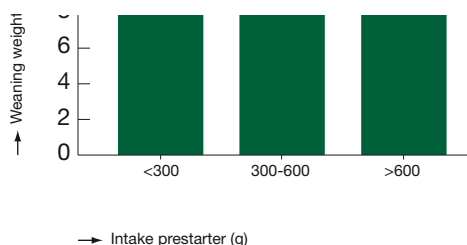
High intake of concentrates and roughage

An early intake of concentrates and roughage is essential for an optimal development of the rumen, in particular the development of the rumen papillae and the thickness of the rumen wall. The intake is influenced by the quality of the concentrates and roughage, the composition of the milk and the feeding schedule applied. Next to paying the



utmost attention to the composition of the milk, Denkavit has developed a well-balanced feeding schedule, reducing the quantity of milk fed once the intake of concentrates and roughage is high enough.

Early and high intake of concentrates



Acidified milk replacer: prevention of upsets

Contrary to milk replacers based on skimmed milk powder the Denkamilk products have been acidified, using natural acids, which do not affect the taste of the milk itself. Acidified milk replacers have shown a positive effect on digestion and have proved to be beneficial on hygiene, thus reducing the risk of digestive disturbances.

Probiotics and prebiotics: an additional safety factor

Denkavit calf milk replacers contain both a probiotic and a prebiotic. Probiotics and prebiotics contribute to a stable intestinal flora, inhibiting the growth of pathogenic bacteria. Therefore the risk of diarrhoea is significantly reduced.

Fatty acids and essential oils: optimal condition

Our careful selection of refined vegetable oils ensures the precise balance of fatty acids, resulting in excellent growth and skin condition. Special care is taken in providing an optimal ratio between

Omega-6 and Omega-3 fatty acids. The percentage of medium chain fatty acids is accurately defined. Added essential oils positively influence the quality of microvilli in the gut. Digestive enzymes are activated and development of pathogenic bacteria is inhibited.

Excellent taste: eager consumption

In the development of new formulations, Denkavit specifically focuses on palatability. A special panel of laboratory staff assesses raw materials in terms of their taste. Palatability trials are also performed at the Denkavit research farms. This ensures an eager consumption of Denkamilk by the choosy calf.

Optimal digestibility: fast growth

Since Denkavit selects only easily digestible sources of energy and protein, a smooth transition from colostrum to Denkamilk is facilitated. This stimulates a fast initial and subsequent growth. As an energy source Denkavit incorporates well-balanced mixtures of vegetable oils. The very small

particle size of the oils and the emulsifiers contribute to an excellent digestibility. Trials carried out at our research farms showed an average daily growth of 750 - 850 gram in the first three months.

Perfect mixing properties: easy to use

Denkavit milk replacers dissolve easily, thus reducing the risk of errors while preparing the milk. The solubility is highly determined by the choice of raw materials and the method of production. The anti dust factor ensures easy handling of the Denkamilk products.

Thoroughly packed and safely delivered

For export destinations Denkavit uses high-quality bags, specially chosen not only to protect the product, but also to ensure that the milk replacers arrive in perfect condition. For the same reason all trucks and containers are thoroughly inspected before loading.

For more information contact your local supplier or www.denkavit.com



Denkamilk: your obvious choice

For rearing young ruminants, Denkavit has compiled a range of milk replacers which are distinctly easy to use, present a high degree of safety and ensure excellent growth results. The Denkamilk range includes products for:

- calves for dairy herd replacement
- calves for beef production
- lambs and kids for rearing or fattening

Denkamilk for calves: Extra, Top S, Superstart, Excellent

Denkamilk for lambs and kids: Caprimel, Ovimel, Capri-Ovi, Ovitop



The Denkavit Group: quality is the key word

The Denkavit Group originates from a trading company established in 1929, dealing in ingredients for the compound feed industry. Over the years, our company has acquired a wealth of knowledge on feed formulations for young animals.

Today, Denkavit offers an extensive range of products, in which high quality special feeds for young animals play a leading role. The Denkavit Group has developed into an internationally active organisation, employing some 400 staff at branches both in the Netherlands and abroad. From the parent company in Voorthuizen, Denkavit milk replacers and piglet feeds are exported to over 40 countries all over the world. Denkavit products are also manufactured under licence.

At Denkavit, quality is the key word. As a modern company we do not only confine this to the quality of our products, but also in building a sound relationship with our partners by offering professional service and advice with the main objective: Growing together.



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