



VitavanceTM

Rumen bypass range

Boosting milk production and milk fat percentage

IOI Loders Croklaan

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IOI GROUP



Optimizing milk production

In today's market, efficient production of milk is vital. Dairy farmers are streamlining the production process in order to optimize milk volumes and fat percentages. Feed composition is a key factor in achieving the best results with a healthy herd and the lowest possible emissions.



The consequences of a negative energy balance

The onset of lactation is particularly important. Insufficient energy intake during this period often results in metabolic disorders, poor reproductive performance and later, reduced milk volumes and fat percentages. The addition of fat to the herd's diet helps to overcome the negative energy balance. It provides the additional energy and nutrients needed for a sustainable boost in milk volume and fat percentage.

The need for rumen bypass fats

Not all fats deliver the desired results. Unsaturated fats are prone to biohydrogenation caused by microbes in the rumen. This can lead to the creation of milk production inhibitors, acidosis and heat stress. Rumen bypass fats on the other hand, are very effective at overcoming the negative energy balance. When added to the herd's diet,

rumen bypass fats (also known as rumen protected fats or RPFs) are unaffected by the microbes in the rumen and delivered intact to the small intestine where they are turned into fatty acids and absorbed by the cow. The result is increased milk volume and fat percentage.

Types of Rumen Protected Fats

RPFs are typically divided into free main classes: calcium soaps, high melting free fatty acids and triglyceride fats. IOI offers products in all three classes. Within these three classes, different products are offered with different fatty acid compositions. The choice of product may depend on specific performance needs, but packaging, particle size, flowability and odour may also be factors to consider. Our sales and technical team are always ready to advise and recommend you the product that meets your needs.

Vitavance™ R-range

Delivered intact to the small intestine

Contribute to energy need at early lactation

Easy handling and mixing

Increase milk production and milk fat percentage at stable protein level

Improve reproductive performance

Improve pellet quality



Reduce the risk of metabolic disorders

| Product name | Free Fatty Acid % (FFA) | Total Fatty Matter % (TFM) | Animal Group | | | Fatty acid composition (%) | | | |
|---|-------------------------|----------------------------|--------------|-------------|------|----------------------------|-------|-------|-------|
| | | | Dairy Cows | Beef Cattle | Goat | C16 | C18:0 | C18:1 | C18:2 |
| Vitavance RF 80 <i>Fatty acid based</i> | 95 | 99 | X | X | X | 81 | 3 | 12 | 3 |
| Vitavance RF 45 <i>Fatty acid based</i> | 95 | 99 | X | X | X | 47 | 50 | 2 | 1 |
| Vitavance RS 35 <i>Calcium soap</i> | 95 | 82 | X | X | | 46 | 4 | 37 | 10 |
| Vitavance RS 45 <i>Calcium soap</i> | 95 | 82 | X | X | | 33 | 5 | 47 | 12 |
| Vitavance RT 80 <i>Fat based</i> | 0.2 | 99 | X | X | X | 81 | 5 | 10 | 2 |
| Vitavance RT 60 <i>Fat based</i> | 0.1 | 99 | X | X | X | 58 | 38 | 2 | 1 |
| Vitavance RT 50 <i>Fat based</i> | 0.1 | 99 | X | X | X | 44 | 54 | 1 | 1 |
| Vitavance RT 10 <i>Fat based</i> | 0.1 | 99 | X | X | | 6 | 90 | 1 | 0 |

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