

volac[®]

Fat Products



Helping farmers to maximize
efficient and healthy production

Volac Interactive PDF

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The Volac range of rumen-protected fats

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Introduction

Volac has been involved in fat nutrition since the early 1980s and during this time has been committed to product innovation and development. This ensures we can offer progressive farmers and millers the products they need.

Volac manufacture rumen-protected (bypass) fat products based on highly-proven calcium salt technology. This ensures dietary fat concentration can be increased without causing problems in the rumen which reduce animal performance. Adding traditional fat sources to a ration (e.g. vegetable or fish oils), or ingredients with high fat concentrations (e.g. brewer's grains) can reduce fibre digestion, kill beneficial rumen bacteria and lead to reductions in milk fat %.

The Volac range of rumen-protected fat supplements is designed to target the major areas of farm productivity where greatest improvements in performance and efficiency can be achieved. These include increased milk yield, improved milk composition, increased growth rates, improved feed efficiency, improved fertility and general health. Volac fat products are not just concentrated sources of energy, but provide many unique features to improve various issues on farms.

Volac rumen-protected fats are formulated to meet the needs of a wide range of ruminant species, in particular dairy cows, beef cattle and sheep.

Made in the UK

Volac fat products are manufactured in our factory in Liverpool.

Sustainability

Volac is a member of the Roundtable on Sustainable Palm Oil (RSPO) and our policy is to source palm oil-based ingredients from RSPO members only.



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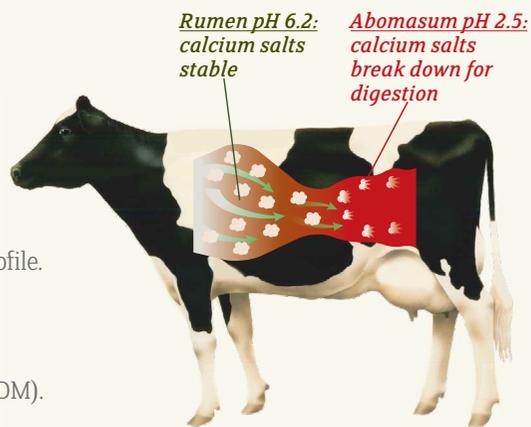
Calcium salts of palm fatty acids



Improves milk production and fertility

Features and benefits:

- A rumen-protected fat source. Megalac is not broken down in the rumen which means that dietary fat can be increased without reducing fibre digestion.
- A balanced and consistent fatty acid profile. Ensures high digestibility of fat.
- High metabolisable energy (ME) concentration: 33.3 MJ/kg dry matter (DM). A safe way to increase ration energy density and energy supply – more energy per bite.
- Highest measured net energy for lactation (NE_L) of any ingredient: 27.3 MJ/kg DM. Energy converted to milk very efficiently. Average response 2.3 kg milk/cow/day.
- A safe way to increase energy density of the diet without risk of acidosis. Not fermented in the rumen.
- Delivers unsaturated fatty acids to the udder. Proven to reduce the saturated fatty acid content of milk fat.



- Improves fertility. Increases progesterone (the essential hormone for pregnancy) and improves quality of ova (eggs) in the ovary.
- Reduces production of methane. Improves production efficiency and reduces environmental emissions.
- The original rumen-protected fat and the most researched product on the market – over 30 years of scientific research. The first calcium salt product on the market, highly-proven, tried and trusted.

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Summary of Volac rumen-protected fats

Typical feed rate (g/head/day)

Lactating Cows	400-800
Dry Cows	125
Beef Cattle	150-500
Sheep & Goats	50-100

Ideally, Megalac should be incorporated into the ration over a few days to help acclimatise the animal to the new ingredient.



Description

A dry free-flowing granular product with consistently-sized large granules and minimal fines.

Typical analysis %

Oil	Ash	Calcium	Moisture
84	12.5	9	5
ME 33.3 MJ/kg DM			

Fatty acid profile (% of total fatty acids)

C16:0	C18:0	C18:1	C18:2
48	5	36	9
Saturated		Unsaturated	

Packaging

Available in 48 x 25 kg bags (1.2 tonnes) on wooden 4-way pallets, mini-bulk bags and true bulk.



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Summary of Volac rumen-protected fats

Volac MEGALAC® PLUS

Megalac plus a source of protected methionine



Designed to improve milk production and composition, fertility and general health

Features and benefits:

- Based on Megalac rumen-protected fat. Highly proven fat source: see Megalac features and benefits.
- High ME concentration: 32.3 MJ/kg DM. A safe way to increase ration energy density and energy supply – more energy per bite.
- Contains a source of the amino acid methionine. One of the first limiting amino acids for milk production. Essential amino acid for increasing milk protein. Essential for processing of fat in the liver to help reduce liver disorders (e.g. ketosis and fatty liver).



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Volac MEGALAC® PLUS

Typical feed rate (g/head/day)

Lactating Cows	400-800
Sheep & Goats	50-100

Ideally, Megalac Plus should be incorporated into the ration over a few days to help acclimatise the animal to the new ingredient.

Description

A dry free-flowing granular product with consistently-sized large granules and minimal fines.



Typical analysis %

Oil	Ash	Calcium	Moisture	Methionine
80.5	12.5	9	5	3
ME 32.3 MJ/kg DM				

Fatty acid profile (% of total fatty acids)

C16:0	C18:0	C18:1	C18:2
48	5	36	9
Saturated		Unsaturated	

Packaging

Available in 48 x 25 kg bags (1.2 tonnes) on wooden 4-way pallets.



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Volac MEGAPRO[®] 30S

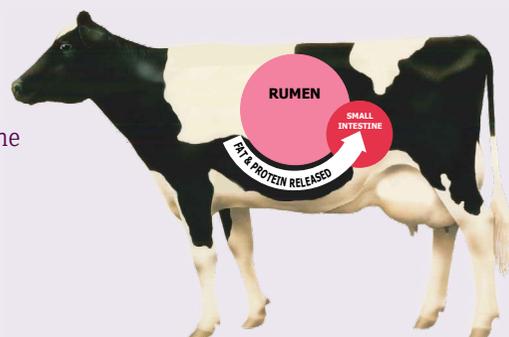
A balanced supply of rumen-protected fat and rumen-bypass protein



Targeted to improve milk yield and composition

Features and benefits:

- Based on Megalac rumen-protected fat. Highly proven fat source: see Megalac features and benefits.
- Source of rumen-bypass protein. High quality protein supplied direct to the small intestine without being broken down in the rumen. Helps reduce accumulation of excess rumen ammonia which is wasteful and can impair fertility.
- Rumen-protected fat and rumen-bypass protein in recommended ratio. High quality protein helps maximise use of energy from fat.
- Contains methionine and lysine, essential amino acids, in recommended ratio. Optimal balance for maximizing milk protein production.
- High ME concentration: 19 MJ/kg DM. Increases ration energy density and energy supply – more energy per bite.



- Not fermented in the rumen. A safe way to increase energy density without risk of acidosis.
- Manufactured using wholly certified sustainable palm oil sourced from members of the Roundtable on Sustainable Palm Oil (RSPO). Oil source is traceable to origin from specific established plantations with sustainable accreditation.

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Volac MEGAPRO[®] 30S

Sustainability

- The protected fat component of Megapro 30S is manufactured from segregated, fully-traceable and certified sustainable palm oil sourced solely from New Britain Oils Ltd in Liverpool.
- The protected protein component of Megapro 30S is manufactured from locally produced rapeseed meal sourced from FEMAS-accredited suppliers.

Typical feed rate (g/head/day)

Lactating Cows	1000-1500
Beef Cattle	200-750
Sheep & Goats	150-300

Ideally, incorporate Megapro 30S into the ration over a few days to help acclimatise the animal to the new ingredient.



Description

A dry free-flowing granular product.

Typical analysis %

Oil 30	Protein 23	Ash 10	Moisture 7	Fibre 11	Calcium 4.5
ME 19 MJ/kg DM					



Packaging

Available in 48 x 25 kg bags (1.2 tonnes) on wooden 4-way pallets and in mini-bulk bags.

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Volac MEGAFAT

High-C16 fat supplement



Designed to increase milk fat %, milk production and fertility

Features and benefits:

- Contains a high concentration of C16:0 (palmitic) fatty acids.
Increases milk fat %.
- Contains a proportion of Megalac fatty acids.
Ensures high digestibility of fat to promote milk production and fertility.
- A rumen-protected fat source.
Calcium salts of fatty acids allow diet fat to be increased without reducing fibre digestion.
- High ME concentration: 34 MJ/kg DM.
Increases ration energy density and energy supply – more energy per bite.



- Not fermented in the rumen.
A safe way to increase energy density of the diet without risk of acidosis.



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Volac MEGAFAT

Typical feed rate (g/head/day)

Lactating Cows	250-800
Dry Cows	125
Beef Cattle	150-500
Sheep & Goats	50-100

Ideally, incorporate Megafat into the ration over a few days to help acclimatise the animals to the new ingredient.

Description

A dry free-flowing semi-granular product made from Megalac and a source of C16 fatty acids.



Typical analysis %

Oil	Ash	Calcium	Moisture
87	11.2	8	4
ME 34 MJ/kg DM			

Fatty acid profile (% of total fatty acids)

C16:0	C18:0	C18:1	C18:2
71	2.5	20	5
Saturated		Unsaturated	

Packaging

Available in 48 x 25 kg bags (1.2 tonnes) on wooden 4-way pallets and in mini-bulk bags.



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Flaxpro®, a source of omega-3 fatty acids

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A source of omega-3 fatty acids from uniquely - processed linseed



Targeted to improve fertility and milk production

Features and benefits:

- Unique source of omega-3 fatty acids. Omega-3 fatty acids increase fertility by improving embryo survival and maintaining pregnancy. Promote a healthy immune system to help fight infection.
- Source of Megalac rumen-protected fat. Highly proven fat source: see Megalac features and benefits.
- Source of rumen-bypass protein. Supplies high quality protein to the small intestine. Helps reduce accumulation of excess rumen ammonia which is wasteful and can impair fertility.



- High ME concentration: 23 MJ/kg DM. Increases ration energy density and energy supply – more energy per bite.
- Does not contain rapidly fermented ingredients. Increases energy density without risk of acidosis.



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Typical feed rate (g/head/day)

Lactating Cows	500-1500
Dry Cows	250-500
Other Cattle	250-750
Sheep & Goats	100-200

Ideally, incorporate Flaxpro into the ration over a few days to help acclimatise the animal to the new ingredient.

Description

A dark coloured, largely coarse meal.



Typical analysis (%)

Oil	Protein	Ash	Moisture	Fibre	Calcium
50	15	8	4	7.5	5
ME 23 MJ/kg DM					

Fatty acid profile (% of total fatty acids)

C16:0	C18:0	C18:1	C18:2	C18:3
26	3.7	26	12	32
Saturated		Unsaturated		
Omega-3				

Packaging

Available in 48 x 25 kg bags (1.2 tonnes) on wooden 4-way pallets and in mini-bulk bags.



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Volac rumen-protected fat products

	Megalac	Megalac Plus	Megapro 30S	Megafat	Flaxpro
Major Features	Highly digestible, 30 years of research work	As standard Megalac plus protected methionine	Protected fat (from sustainable source) and by-pass protein	High in C16 fatty acids	A source of omega-3 fatty acids
Benefits	Improves milk yield, fertility and general health	As Megalac with improved milk composition	Increased energy and protein supply to improve milk yield and composition	Stimulates milk fat %	Fertility and production benefits
Oil (%)	84.0	80.5	30.0	87.0	50.0
Protein (%)	0.0	3.0 (Methionine)	23.0	0.0	15.0
Moisture (%)	5.0	5.0	7.0	4.0	4.0
Fibre (%)	0.0	0.0	11.0	0.0	7.5
Ash (%)	12.5	12.5	10.0	11.2	8.0
Calcium (%)	9.0	9.0	4.5	8.0	5.0
ME (MJ/kg DM)	33.3	32.3	19.0	34.0	23.0
Rumen protection	Rumen-protected fat. No negative effects in rumen	Rumen-protected fat plus protected methionine source	Rumen-protected fat and rumen-bypass protein	Rumen-protected fat	Rumen-protected fat and oilseeds

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Flaxpro®; a source of omega-3 fatty acids

The information provided in this booklet is accurate at the date of publication so far as Volac is aware. Any changes to a farm animal ration should be approved by your nutritional advisor. Volac cannot take responsibility for problems, damages or losses caused either directly or indirectly by the use of information provided herein.

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