

# ***PROTECTED FATS***



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Protected Fats are one of the richest sources of energy for the lactating dairy cow. Fat has over twice the level of energy density than the carbohydrates provided by cereals. They represent the best opportunity for fulfilling the huge energy demands of today's high-yielding dairy cows, or balancing high forage diets where silage quality may be limiting.

These products have a high melting point, which renders them inert in the rumen, thus avoiding interference with the animal's digestion.

Feeding high dietary fat through conventional sources can impair rumen microbial activity, using protected fats reduces this impact and allows higher digestible energy to be fed without impacting on rumen microbes.

Today's lactating cow requires energy for milk production, reproduction & growth. If insufficient energy is provided, the cow will lose unacceptable amounts of weight; compromising milk yield and fertility, as well as the risk of metabolic disorders.

The problem of energy deficiency is most acute in the first 100 days of lactation. At this stage, the highest energy requirement is seen when milk yield moves towards its peak, however, at this time the cows appetite remains low, which results in the classic 'energy gap'. It is the failure to fill this gap and consequent weight loss which has been shown to result in lower lactating yields, poorer fertility and risk of metabolic disorders.

## NWF EVOLUTION PROTECTED FAT

A cost-effective, high-quality rumen-protected fat for ruminants. High in energy and availability, this saturated fat is protected from rumen breakdown and will help improve the performance of high performing ruminant animals by meeting the energy demands which cannot be met using standard feeds.

### Nutritional Benefit

As high energy protected fat, it provides energy to high performing ruminants at the site they require it. Uniquely protected, the fat does not affect rumen function, bypassing it for digestion in the lower gut. Nutrients are therefore provided to the point of demand, essential for high yielding dairy cows, beef animals and lactating ewes.

### Features

- Improved peak and lactation yields.
- Improved cow condition.
- Improved fertility.
- Reduced risk of acidosis and ketosis.
- Reduced culling rates.

### Application

This product should be incorporated in TMR and home mix diets and fed to response.

### Typical Analysis

• Dry Matter – 98.0%	• C16 FAT – 48.0%
• MER – 34.0 MJ/Kg	• C18 – 49.0%

### Daily Feed Rates

Dairy Cows	Up to 500g depending on performance, cow condition and stage of lactation
Beef	Up to 300g
Sheep	Up to 200g

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# NWF BUTTERFAT EXTRA

Farmers that are introduced to Butterfat Extra for the first time and are not currently feeding any other protected fats have often reported improvements of up to 0.5%.

## Nutritional Benefit

NWF Butterfat Extra is a rumen protected fat that is extremely rich in energy and C16 fatty acids to boost milk production and milk fat content.

## Features

- Pure 99% vegetable fat derived from non GM palm oil in prill form.
- High level of rumen bypass but also high absorption in the small intestine.
- Improves cow health by minimising incidence of ketosis plus weight and body condition loss in early lactation.
- High palatability, no soapy taste or smell.
- Very high energy content, 36MJ/kg DM, ideal for high yielding cows in early lactation.
- Stimulates milk yield and milk fat content.

## Application

Butterfat Extra contains C16 fats and can be fed as part of a TMR, top dressed or as part of a blend.

## Typical Analysis

• Dry Matter – 99.0%	• C16 FAT – 85%
• MER – 36 MJ/Kg	• C18 – 8%

## Daily Feed Rates

Dairy Cows	Typically 200-500g
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# GOLDEN FLAKE

An extremely high energy, palatable, rumen protected fat to drive milk yield, increase milk fat and reduce body weight loss manufactured from palm fatty acids.

## Nutritional Benefit

The highest responses are seen when demand is at its highest, which is within the first 120 days of lactation for high yielding cows or in the diets of prolific milking and breeding ewes and goats. For best results consider feeding a rumen-protected protein source in addition, e.g. NWF Ultra Soy.

Up to 5% is recommended in manufactured complementary feeds. It is best introduced to the ration over a period of a few days and it should be mixed with other feed materials before feeding.

## Features

- High energy increases milk yield in early lactation.
- Minimises body weight loss and improves fertility.
- Reduces risk of ketosis.
- Rumen protection avoids negative effects on fibre digestion.

## Application

Golden Flake can be applied as a top dressing or as an ingredient in the feed mixture.

## Typical Analysis

• Dry Matter – 99.0%	• C16 FAT – 49.0%
• MER – 36.0 MJ/Kg	• C18 – 42.0%

## Daily Feed Rates

Dairy Cows	200g to 500g depending on performance, cow condition and stage of lactation
Beef	Up to 300g
Sheep	Up to 100g for multiple bearing and lactating ewes

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# ENVIROLAC

Envirolac is the solution for farming and environmental sustainability, proven to increase milk yields and quality while offering a lower carbon footprint than palm-oil based fat supplements.

## Nutritional Benefit

Envirolac is designed to increase dietary energy density while optimising rumen fermentation and prime liver function in order to increase milk yield and constituents and improve cow health and fertility.

## Features

- Results demonstrate that Envirolac has a higher feed conversion.
- Farmers can invest in Envirolac to reduce their carbon footprint.
- Envirolac provides a cost-effective solution to milk buyers' carbon footprint reduction requirements, without having to pay a premium.
- Envirolac increases butterfat production, helping farmers achieve contract targets more easily.
- Financial gains achieved through higher milk yields, butterfat and protein outweighs outlay costs.
- Envirolac is more palatable for cows.
- Farmers can achieve potential bonuses payable by processors to those who lower their carbon footprint.

## Application

Envirolac should be incorporated in TMR and home mix diets.

## Typical Analysis

• Dry Matter – 94.0%	• Protein – 2.2%
• Oils & Fats – 50.0%	• Ash - 3%
• MER – 29.8MJ/Kg	

## Daily Feed Rates

Dairy Cows	Typically 500-750g per cow per day.
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