



# Processed Bread

Product from the bakery industry



A high starch energy feed providing a moist alternative to processed cereals.

## Typical Analysis (on a dry matter basis)

Dry matter (%)	Energy (MJ ME/kg DM)	Crude protein (%)	Oil (%)	NDF (%)	Starch (%)	Sugar (%)	DUP (%)
65	14	14	3	10	73	6	4.0

## What are you trying to achieve?

Need	Feature	Benefit
Increase milk yield		Starch drives microbial protein production and spares protein being used for energy leading to increased yields and higher milk protein
Increase milk protein %		
Improve fertility	High starch and energy content.	Can help reduce early lactation body weight loss which is known to improve heat expression. Energy, as starch, fed immediately post calving can improve cycling through its effect on insulin.
Reduce feed costs	Higher starch and energy content than cereals	Provides a cost-effective alternative to cereals whilst providing similar energy and protein levels.
Flexibility in feeding	Can be ensiled alone or advantageously with moist feeds such as C*Traffordgold, Vitagold and brewers' grains.	When ensiled in combination can be used tactically as a forage or concentrate replacer.

The predicted responses (benefits) assume that the specified nutrient, physical or structural dietary components are limiting livestock performance in the current ration.



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## Complementary Concentrate Feeds

- **Moist feeds** e.g. brewers' grains, Vitagold and C\*Traffordgold which can also be ensiled in combination with bread.
- **Distillery Syrups e.g.** Spey syrup
- **Low starch feeds** e.g. wheat distillers', sugar beet feed, brewers' grains
- **High sugar feeds** e.g. liquids such as molasses, Regumaize 44

## Recommended daily feed rates (per head basis)

Processed Bread can be fed as part of a TMR. It should be introduced gradually into the ration and always be fed with a good source of long fibre.

Milking Cows	Up to 6 (typically 4)kg mixed with other feeds
Dry Cows	Up to 3 (typically 1) kg
Replacement Heifers	Up to 3 kg and up to 30 % of the DMI
Calves (to 12 weeks)	Up to 1.5 kg and up to 30% of the DMI
Growing Cattle	Up to 4 kg and up to 40 % of the DMI
Finishing Cattle	Up to 6 kg and up to 50 % of the DMI
Suckler Cows	Up to 4 (typically 1)kg
Ewes and Rams	Up to 1 (typically 0.5) kg
Hoggets and Lambs	Up to 0.75 kg/head or up to 50% of the DMI

DMI = dry matter intake

## Availability, handling and storage

Processed Bread is available year round and UK wide as bulk tipped loads.

Processed Bread should preferably be stored in cool, dry conditions to prevent water absorption and used within 20-30 days of delivery (if feeding fresh). For long-term storage, the product should be clamped, the air excluded, consolidated and covered with a secured sheet in the same manner as grass silage.

### Storage Tips

- Storage sites should be situated away from open watercourses and designed with a narrow, north facing feed face.
- The load should be compacted, using a tractor bucket or a hand shovel, to remove air and maintain close contact between the top of the load and the sheet.
- The load should be covered with a clean and undamaged plastic sheet to ensure it is air and water tight. Trapped air should be removed by smoothing the sheet and weighting it down.
- If the surface covering is not complete use of a mould inhibitor is recommended.
- Failure to ensile properly may result in mould growth, loss of dry matter and a reduction in the nutritive value of the clamp.



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## Additional information

### Method of production

Processed Bread is produced from loaves which have not met the baker's specification, i.e. they are under or over cooked, the wrong colour or the packaging is damaged plus segregated returns from in store retailer bakeries. They are collected from these bakeries and processed to remove any packaging; the loaves are then broken down into manageable friable pieces.

### Quality Assurance

Processed Bread is a FEMAS assured (or a recognised equivalent), fully traceable, product and marketed by KW Alternative Feeds a UFAS-accredited merchant. Processed Bread (Products from the bakery and pasta industry) is listed under number 13.1.1 in the EU Catalogue of Feed Materials.

### Legal disclaimer

Suggested feeding rates are produced as a guide only and many other factors may have an overriding effect on animal response; no performance guarantee can be given. Rations should be carefully balanced for energy and protein, contain sufficient forage to maintain rumen function and be fortified with an appropriate vitamin and mineral supplement. Animals must have constant access to clean water.



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### Detailed Typical Analysis (fresh basis other than where stated)

Dry matter	%	65.0	Calcium	g/kg	1.08
Oil A	%	1.63	Magnesium	g/kg	0.36
Oil B	%	1.95	Phosphorus	g/kg	1.30
Crude protein	%	9.39	Potassium	g/kg	1.44
Crude protein:DM	%	14.5	Salt	g/kg	11.6
Fibre	%	2.28	Sodium	g/kg	4.33
Ash	%	2.17	Copper	mg/kg	5.80
ME* – <i>in vivo</i>	MJ/kg DM	14.0	Manganese	mg/kg	13.0
NDF	%	6.50	Selenium	mg/kg	0.02
Starch	%	47.5	Zinc	mg/kg	21.1
Sugar	%	4.00	Saturates	% of oil	19.0
ERDP-FiM*	% @ 6%	6.10	Monounsaturates	% of oil	19.0
DUP-FiM*	% @ 6%	2.60	PUFAs	% of oil	62.0
DUP digestibility	%	85.0	Long chain PUFAs	% of oil	0.00
sDM		0.06	Lysine	% of CP	3.04
aDM		0.52	Methionine	% of CP	1.70
bDM		0.41	Cysteine	% of CP	2.22
cDM		0.19	Histidine	% of CP	2.52
SN		0.08	Threonine	% of CP	3.06
aN		0.18			
bN		0.77			
cN		0.14			



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