



# Apple Pomace



Apple pomace is a highly succulent moist feed, providing a good source of digestible fibre; that can be used as either a forage extender or concentrate feed.

## Typical Analysis (on a dry matter basis)

Dry matter (%)	Energy (MJ ME/kg DM)	Crude protein (%)	Oil (%)	NDF (%)	Starch (%)	Sugar (%)
26.0	10.5	7.0	2.0	52.0	3.0	16.0

## What are you trying to achieve?

Need	Feature	Benefit
Drive intake	A highly palatable and succulent moist feed.	Can stimulate intakes of less palatable feeds, increasing milk and meat production.
Minimise risk of acidosis	High digestible fibre and low starch content.	Allows high levels to be fed safely, especially when used as a forage extender.
Increase milk fat %	A good source of digestible fibre.	Provides the building blocks for milk fat synthesis, increasing value per litre
Traceability	Produced in the UK	A short and local supply chain creates peace of mind.
Flexibility in feeding	Can be ensiled alone or with other forages or as part of a TMR.	Can be used as a forage replacer when supplies are limited or quality is poor.

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

## Complementary Concentrate Feeds

- **High-starch feeds** - Cereals, maize meals, confectionary products
- **High-protein feeds** – Soya bean meal, rapeseed meal, wheat distillers



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## Recommended Daily Feeding Rates (per head basis)

Pressed Fruit Pulp can be fed as part of a TMR, as a concentrate feed or as a forage replacer.

Milking Cows	Up to 15 (typically 8) kg
Dry Cows	Up to 4 kg
Replacement Heifers	Up to 10 kg and up to 30% of the DMI
Calves (to 12 weeks)	Up to 2.5 kg and up to 15% of the DMI
Growing Cattle	Up to 8 kg and up to 30 % of the DMI
Finishing Cattle	Up to 12 kg and up to 40% of the DMI
Suckler Cows	Up to 15 (typically 6) kg
Ewes and Rams	Up to 2.0 (typically 1)kg
Hoggets and Lambs	Up to 1.5 kg and up to 30% of the DMI

DMI = dry matter intake

### Availability, Handling and Storage

Apple Pomace is a co-product of the cider industry and is available as bulk tipped loads in either 29 tonnes (Articulated vehicles) or 20 tonnes (Rigid vehicles) throughout Southern England and Midlands. It only available when the fruit is being crushed which is usually September to December, however it can be clamped for later use. It is advisable to contract supplies early as demand occasionally outstrips supply, particularly at times of forage shortage.

Apple Pomace should always be stored on a clean and dry concrete base. Even if feeding fresh, it is advisable to exclude air from the load by consolidating and sheeting. For long-term storage, Apple Pomace 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.
- Failure to ensile properly may result in mould growth, loss of dry matter and a reduction in the nutritive value of the clamp.
- When feeding commences it is advisable to exposed two to three days usage at a time as this minimizes the risk of air getting under the sheet. The feed face should not be left covered while feeding as this will create a sweaty environment which could encourage the growth of moulds and yeast and plus fruit flies

It is recommended to cover the feed face during heavy rain.



## Additional Information

### Method of Production

A co-product from the UK cider industry, Apple pomace comprises of the pulp and skin that remains after pressing mainly Apples and occasionally Pears.

### Quality Assurance

Apple Pomace is FEMAS-assured (or equivalent), fully traceable, product and marketed by KW Alternative Feeds a UFAS-accredited merchant. Pressed Apple Pomace is listed under number 5.4.1 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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**Typical Detailed Analysis** (fresh basis other than where stated)

Dry matter	%	26.0	Calcium	g/kg	0.42
Oil A	%	0.55	Magnesium	g/kg	0.16
Oil B	%	0.75	Phosphorus	g/kg	0.37
Crude protein	%	1.9	Potassium	g/kg	1.80
Crude protein	% DM	7.0	Salt	g/kg	0.26
Fibre	%	5.00	Sodium	g/kg	0.11
Ash	%	0.47	Copper	mg/kg	2.60
ME* – <i>in vivo</i>	MJ/kg DM	10.5	Manganese	mg/kg	1.84
NDF	%	13.5	Selenium	mg/kg	0.04
Starch	%	0.79	Zinc	mg/kg	2.60
Sugar	%	4.12	Saturates	% of oil	20.0
ERDP-FiM*	% @ 6%	0.80	Monounsaturates	% of oil	10.0
DUP-FiM*	% @ 6%	0.70	PUFAs	% of oil	70.0
DUP digestibility	%	80.0	Long chain PUFAs	% of oil	0.0
sDM		0.15	Lysine	% of CP	3.89
aDM		0.20	Methionine	% of CP	1.37
bDM		0.60	Cysteine	% of CP	1.17
cDM		0.06	Histidine	% of CP	1.84
SN		0.12	Threonine	% of CP	3.01
aN		0.30			
bN		0.55			
cN		0.07			