



# Brewers' Grains



A highly palatable and succulent moist feed providing a rich source of digestible fibre and protein.

## Typical Analysis (on a dry matter basis)

Dry matter# (%)	Energy (MJ ME/kg DM)	Crude # protein (%)	Oil (%)	NDF (%)	Starch (%)	Sugar (%)	DUP (%)
20.0-26.0	11.7	20.0-26.0	7.0	67.0	4.0	2.0	7.5

# Dry matter and Protein can vary

## What are you trying to achieve?

Need	Feature	Benefit
Drive intake	A succulent and palatable moist feed.	Brewers' Grains is often associated with higher intakes, resulting in increased 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.
Traceability	Produced in the UK	A short and local supply chain creates peace of mind.
Flexibility in feeding	Can be ensiled or fed alone or with other feeds such as Sugar Beet feed to produce Grainbeet.	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.

## Complementary Concentrate Feeds

- **High starch feeds** e.g. cereals, maize meals, confectionery and bakery products.
- **Low protein feeds** e.g. cereals, citrus pulp, soya hulls, and sugar beet products.
- **Rumen bypass proteins** e.g. SoyPass, Prototec.



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## Recommended daily feed rates (per head basis)

Brewers' Grains can be fed as concentrate feed, part of a TMR and as a forage replacer.

Milking Cows	Up to 20 (typically 8)kg
Dry Cows	Up to 4 kg
Replacement Heifers	Up to 10kg and up to 30 % of the DMI
Calves (to 12 weeks)	Up to 5 kg and up to 30 % of the DMI
Growing Cattle	Can be fed <i>ad lib</i> and typically up to 50% of the DMI
Finishing Cattle	Can be fed <i>ad lib</i> and typically up to 50% of the DMI
Suckler Cows	Up to 15 (typically 6)kg
Ewes and Rams	Up to 3 (typically 2)kg
Hoggets and Lambs	Can be fed <i>ad lib</i> and typically up to 50% of the DMI

DMI = dry matter intake

## Availability, handling and storage

Brewers' Grains are available throughout the UK as bulk tipped loads. It is advisable to contract supplies as early as demand occasionally outstrips supply, particularly around the turn of the year, in early spring and also at times of forage shortage.

### Storage Tips

- Store on a clean dry concrete base.
- Storage sites should ideally be situated away from open watercourses, narrow and designed in a way that the feed face is north facing.
- Brewers' Grains will be hot on arrival. It is best left for 24 hours before sheeting to let heat escape.
- Depending on the dry matter content of the Brewers' Grains, the load may need to be compacted using a tractor bucket or hand shovel, to remove air and maintain close contact between the top of the load and the sheet.
- Cover with high quality plastic sheet and evenly weight with Secure Covers and gravel bags or straw bales.
- Ensure the product is completely covered with the sheet, even at the edges, to create an air tight seal.
- When feeding starts, it's best to expose 3 or 4 days worth of feed at a time. Placing a line of weights on the sheet, as far back as your intend to expose the feed, reduces the risk of air entering the clamp and aids keeping quality.
- Ensure the open face of the silo is kept neat and tidy, and should never be covered, unless the feed is to be ensiled for feeding at a later stage.



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## Additional information

### Method of production

Brewers' Grains are a co-product from the UK Brewing Industry. During the brewing process the starch in the malted barley is converted into sugars, resulting in a concentration of the fibrous and protein residues from the grains. These are separated off as Brewers' Grains, a pale brown moist feed.

### Quality Assurance

Brewers' Grains are FEMAS assured (or a recognised equivalent) and marketed by KW Alternative Feeds, a UFAS- accredited merchant. Brewers' Grains (Moist distillers' grains') is listed under 1.12.7 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.

## Brewers' Grains

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

Dry matter	%	20-26.0	Calcium	g/kg	0.84
Oil A	%	1.33	Magnesium	g/kg	0.41
Oil B	%	1.50	Phosphorus	g/kg	0.12
Crude protein	%	5.80	Potassium	g/kg	0.13
Fibre	%	4.09	Salt	g/kg	0.88
Ash	%	1.00	Sodium	g/kg	0.06
ME* – <i>in vivo</i>	MJ/kg DM	11.7	Copper	mg/kg	1.70
NDF	%	14.8	Manganese	mg/kg	7.90
Starch	%	0.92	Selenium	mg/kg	0.01
Sugar	%	0.53	Zinc	mg/kg	13.0
ERDP-FiM*	% @ 6%	3.36	Saturates	% of oil	20.0
DUP-FiM*	% @ 6%	1.79	Monounsaturates	% of oil	13.0
DUP digestibility	%	71.0	PUFAs	% of oil	67.0
sDM		0.12	Long chain PUFAs	% of oil	0.00
aDM		0.25	Lysine	% of CP	3.85
bDM		0.60	Methionine	% of CP	1.95
cDM		0.06	Cysteine	% of CP	2.05
sN		0.19	Histidine	% of CP	2.05
aN		0.33	Threonine	% of CP	3.80
bN		0.51			
cN		0.12			



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