Wheat Distillers

A very palatable, high energy and protein feed, rich in digestible fibre, low in starch and providing a good source of bypass protein. Wheat Distillers are sourced from the Vivergo bio-refinery in Yorkshire and provide a sustainable alternative to soya.

Typical Analysis (on a dry matter basis)

Dry matter (%)	Energy (MJ ME/kg DM)	Crude protein (%)	Oil (%)	NDF (%)	Starch (%)	Sugar (%)	DUP (%)
87.0	13.4	35.6	7.5	31.5	3.9	4.0	11.0

What are you trying to achieve?

Need	Feature	Benefit
Drive intake	Highly palatable feed.	Can stimulate intakes of less palatable feeds, increasing milk and meat production.
Reduce feed costs	High quality protein and a good source of bypass protein.	Allows ratios of soya and low protein concentrates to be replaced whilst providing similar energy and protein levels (usually at lower cost).
Improve rumen efficiency	Distillery products contain high levels of yeast fragments particularly in the solubles fraction.	Stimulates rumen activity, promoting fibre digestion and overall feed efficiency.
Minimise risk of acidosis	High proportion of the energy as digestible fibre.	Allows energy intakes to be increased without increasing the risk of acidosis associated with high starch feeds.

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

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

Recommended daily feed rates (per head basis)

Wheat Distillers can be top dressed or floor fed, and used individually or as part of a blend or TMR.

Milking Cows	Up to 4 (typically 3)kg
Dry Cows	Up to 2 kg
Replacement Heifers	Up to 3 kg and up to 35% of the DMI
Calves (to 12 weeks)	Up to 1.5 kg and up to 25% of the DMI
Growing Cattle	Up to 3 kg and up to 40% of the DMI
Finishing Cattle	Up to 5 kg and up to 40% of the DMI
Suckler Cows	Up to 4 (typically 2)kg
# Ewes and Rams	Up to 1(typically 0.5)kg
# Hoggets and Lambs	Up to 0.75kg and up to 50% of the DMI
# (Unlike some feeds from the whisky Industry, co-products from bioethanol production **do not** contain high levels of copper).	

DMI = dry matter index

Availability, handling and storage

Wheat Distillers are available as bulk tipped loads. Like all dry feeds, they should be stored in a secure shed or bunker and kept cool, dry and free from vermin. British Wheat Distillers should be used within 3 months of delivery.

Additional information

Method of production

Wheat Distillers are a product of the bio-ethanol industry. Following the fermentation of wheat and the distillation of ethanol, they are obtained from drying solid residues of fermented grains and adding evaporated syrups (solubles).

Quality Assurance

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Wheat Distillers are FEMAS assured (or a recognised equivalent) product. Wheat Distillers are listed under number 1.12.11 in the EU Catalogue of Feed Materials.

Wheat Distillers

Detailed Typical Analysis (fresh basis other than where stated)

Dry matter	%	87.0	Calcium	g/kg	0.15
Oil A	%	3.20	Magnesium	g/kg	0.25
Oil B	%	6.50	Phosphorus	g/kg	0.90
Crude protein	%	31.0	Potassium	g/kg	1.10
Crude protein: DM	%	35.6	Salt	g/kg	3.50
Fibre	%	7.00	Sodium	g/kg	0.70
Ash	%	5.00	Copper	mg/kg	12.0
ME* – *in vivo*	MJ/kg DM	13.4	Manganese	mg/kg	65.0
NDF	%	29.0	Selenium	mg/kg	0.15
Starch	%	3.40	Zinc	mg/kg	85.0
Sugar	%	3.50	Saturates	% of oil	19.0
ERDP-FiM*	% @ 6%	19.5	Monounsaturates	% of oil	19.0
DUP-FiM*	% @ 6%	11.0	PUFAs	% of oil	62.0
DUP digestibility	%	82.0	Long chain PUFAs	% of oil	0.00
sDM		0.27	Lysine	% of CP	2.00
aDM		0.70	Methionine	% of CP	1.40
bDM		0.21	Cysteine	% of CP	1.75
cDM		0.11	Histidine	% of CP	2.25
sN		0.30	Threonine	% of CP	3.20
aN		0.74			
bN		0.18			
cN		0.17			

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