



# North British Distillers Maize Pellets



An extremely high energy mid protein feed, rich in digestible fibre plus oil and providing a good source of bypass protein.

## Typical Analysis (on a dry matter basis)

Dry matter (%)	Energy (MJ ME/kg DM)	Crude protein (%)	Oil (%)	NDF (%)	Starch (%)	Sugar (%)	DUP (%)
86.5	15.0	29.0	13.0	29.0	3.0	1.0	14.5

## What are you trying to achieve?

Need	Feature	Benefit
Drive intake	Very 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 proportions of soya and low protein concentrates to be replaced whilst providing higher total energy.
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 and oil.	Allows energy intakes to be increased without increasing the risk of acidosis associated high starch feeds.
Feeding flexibility	Consistent and durable pellet.	Suitable for use in automated and floor feeding systems. Can be transferred to feeders via auger systems.

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, confectionary and bakery products.
- **Low protein** feeds e.g. cereals, soya hulls and sugar beet products.
- **Rumen bypass proteins** e.g. SoyPass, Prototec.

## Recommended daily feed rates (per head basis)

North British Distillers Maize Pellets can be fed via automated feeders, top dressed or floor fed, and used individually or as part of a blend or TMR.

Milking Cows	Up to 4 (typically 2-3)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 2.5 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

#(NB Maize **do not** contain the very high levels of copper seen in other distillery products as stainless steel stills are used. Therefore, it can be fed, when blended with other feeds, to most breeds of sheep but advice should be taken from a suitably qualified person).

DMI = dry matter intake

## Availability, handling and storage

North British Distillers Maize Pellets are an 8mm pellet and meal and are available, UK wide, as bulk tipped or blown loads. Like all dry feeds, they should be stored in a secure shed, bunker, bin or hopper and kept cool, dry and free from vermin. North British Distillers Maize Pellets should be used within 2 months of delivery (due to a high residual oil content).

## Additional information

### Mycotoxins

There is an inherent risk of mycotoxins associated with the feeding of maize based products, this can fluctuate seasonally, based on growing, harvesting and storage conditions and therefore risks are well known and documented. These products are fed as part of ruminant diets on the basis of nutritional advice which must always include the addition of a mycotoxin binder made up of a bentonite clay and a yeast cell such as UltraSorb R, to mitigate these risks. For more information on UltraSorb R and its feed rate please see the datasheet on our website or contact your KW salesperson.





## Method of production

North British Distillers Maize Pellets are a co-product from the production of grain whisky by North British Distilleries. Whole maize is milled to reduce its particle size and provide the substrate for fermentation. The starch in the grain is gelatinised with steam, treated to convert it into sugars and then fermented to produce alcohol. The alcohol is then distilled out of the mixture; the remaining grain residues are mixed with some of the liquid fraction, dried and pelleted.

## Quality Assurance

North British Distillers Maize Pellets are FEMAS assured (or a recognised equivalent) product. North British Distillers Maize Pellets (Distillers dried grains and solubles) are listed under number 1.12.11 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	%	86.5	Calcium	g/kg	0.70
Oil A	%	10.4	Magnesium	g/kg	2.30
Oil B	%	11.25	Phosphorus	g/kg	7.00
Crude protein	%	25.01	Potassium	g/kg	8.90
Crude protein: DM	%	29.0	Salt	g/kg	3.95
Fibre	%	6.00	Sodium	g/kg	2.45
Ash	%	3.80	Copper	mg/kg	24.0
ME* – <i>in vivo</i>	MJ/kg DM	15.0	Manganese	mg/kg	24.8
NDF	%	25.01	Selenium	mg/kg	0.24
Starch	%	2.60	Zinc	mg/kg	54.5
Sugar	%	0.87	Saturates	% of oil	13.0
ERDP-FiM*	% @ 6%	13.9	Monounsaturates	% of oil	26.0
DUP-FiM*	% @ 6%	12.9	PUFAs	% of oil	61.0
DUP digestibility	%	80.0	Long chain PUFAs	% of oil	0.00
sDM		0.30	Lysine	% of CP	2.70
aDM		0.60	Methionine	% of CP	1.88
bDM		0.30	Cysteine	% of CP	1.65
cDM		0.05	Histidine	% of CP	2.60
sN		0.13	Threonine	% of CP	3.72
aN		0.32			
bN		0.63			
cN		0.05			

