Maize Gluten Feed

A feed with a balanced composition of protein, starch and digestible fibre that is similar to many ruminant compounds making it an ideal complement in ruminant rations.

Typical Analysis (on a dry matter basis)

Dry matter (%)	Energy (MJ ME/kg DM)	Crude protein (%)	Oil (%)	NDF (%)	Starch (%)	Sugar (%)	DUP (%)
90.0	12.8	22.0	4.0	34.0	18.0	1.5	6.5

What are you trying to achieve?

Need	Feature	Benefit
Reduce feed costs	Balanced nutrient composition.	A competitively priced alternative too many compounds for dairy, beef and heifer rearing.
Maintain milk yield and quality		Provides the building blocks for increased yield, milk protein and fat.
No processing, ready to feed, easy storage	Ready to use pellet / meal	No further processing costs. Ideal alternative to rolled cereals.
Feeding flexibility	Reasonable pellet durability	Suitable for use 'in parlour' 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.

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. NovaPro, SoyPass, Prototec.

Recommended daily feed rates (per head basis)

Maize Gluten Feed can be fed as part of a TMR, as a blend or as a concentrate.

Milking Cows	Up to 6 (typically 3)kg
Dry Cows	Up to 2 kg
Replacement Heifers	Up to 4 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

DMI = dry matter intake

Availability, handling and storage

Maize Gluten Feed is available all year round, UK wide, as bulk tipped loads. Like all dry feeds, it should be stored in a secure shed, bunker, bin or hopper and kept cool, dry and free from vermin. Whilst often containing a proportion of pellets, Maize Gluten Feed will generally be available as a mixture of meal and pellets. Maize Gluten Feed should be used within 6 months of delivery.

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

Maize Gluten Feed is a co-product from the moist milling of maize to produce starch and sugar syrups. The final product comprises a mixture of the maize fibres, corn steep syrup, maize germ and purification oils and proteins.

Quality Assurance

Maize Gluten Feed (GM) is a FEMAS-assured (or recognised equivalent) product and is marketed by KW Alternative Feeds a UFAS-accredited merchant. Maize Gluten Feed is listed under number 1.2.9 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	%	90.0	Calcium	g/kg	2.20
Oil A	%	2.60	Magnesium	g/kg	3.50
Oil B	%	3.60	Phosphorus	g/kg	8.50
Crude protein	%	20.0	Potassium	g/kg	11.5
Crude protein: DM	%	22.0	Salt	g/kg	4.50
Fibre	%	8.00	Sodium	g/kg	2.80
Ash	%	6.00	Copper	mg/kg	5.00
ME* – *in vivo*	MJ/kg DM	12.8	Manganese	mg/kg	23.0
NDF	%	31.0	Selenium	mg/kg	0.07
Starch	%	16.5	Zinc	mg/kg	66.0
Sugar	%	2.60	Saturates	% of oil	18.0
ERDP-FiM*	% @ 6%	13.0	Monounsaturates	% of oil	21.0
DUP-FiM*	% @ 6%	5.80	PUFAs	% of oil	61.0
DUP digestibility	%	82.0	Long chain PUFAs	% of oil	0.00
sDM		0.19	Lysine	% of CP	3.70
aDM		0.45	Methionine	% of CP	1.97
bDM		0.48	Cysteine	% of CP	2.23
cDM		0.07	Histidine	% of CP	3.61
sN		0.37	Threonine	% of CP	4.06
aN		0.48			
bN		0.43			
cN		0.10			