

Reasons to feed molasses: Regulated release protein



The benefits of regulated release protein in ruminants

- A more regulated release helps to avoid a 'rush' of nitrogen from Urea becoming potentially hazardous and having a toxic effect on the micro-organisms in the rumen
- More synchronised release of nitrogen will ensure more efficient starch digestion in the rumen which is ideal for balancing maize silage based diets
- Risk of acidosis reduced as starch is being utilized more efficiently in rumen

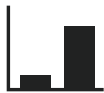
Why our Nutrimaize molasses blends are a great source of regulated release protein

- Urea when accurately bonded with the sugars in molasses such as in our Nutrimaize blends creates a scientifically proven regulated protein release effect
- Really safe way to add Urea to a ruminant diet as molasses liquids will ensure an even dispersion across a TMR ration so precision weighing not required
- Nutrimaize blends are easy to handle and also supply a source of sugar creating a more synchronised supply of energy and protein to the rumen

The science behind why our Nutrimaize blends are the best regulated protein release liquids for ruminants



United Molasses GB's Nutrimaize product range is manufactured via our unique bonding process where through the precision blending of molasses and urea over several steps we produce a high level of sugar-ureides in these liquids making them the most bonded version of this type of product available in the GB market.



Using the Bioparametrics Feed and Forage Analytical services, trials have shown that five hours after consumption, 90% of the nitrogen in feed grade Urea had been released but only 35% of the nitrogen from Nutrimaize 46 was released during the same time period.



Incorporating Nutrimaize in a diet containing maize silage is essential in maximising the starch digestion. Starch is a slowly degradable form of energy, and is ideally balanced with a slowly degrading source of nitrogen. Urea is the key ingredient in balancing maize silage but is very quickly degradable, so Nutrimaize's more sustained release means the protein availability is better synchronised to the Starch. This of course means less chance of acidosis as the starch is utilised more efficiently.



Nutrimaize 46 is the only molasses based product available to farmers which is scientifically proven to regulate nitrogen release for up to 48 hours after consumption, giving a superb all round balance of quickly and slowly degrading nitrogen with a constant sugar source in an easy to handle form



Trials have shown that Nutrimaize 46 can be used to replace a soya/rapemeal mix 1:1 with increased forage intakes and improved milk quality (Rodbaston college) and is more economical to use against similar products with a lower DM and CP content.



As Molasses blends are liquids a cow can physically consume approx. 0.5kg more Dry Matter intake per day over a forage based diet containing only dry feed materials.



The extra Dry Matter intake means the cow is getting around 6 MJ of energy boost a day when a Molasses blend is included which should translate to an increase of over 1 litre of extra milk produced per day in a dairy cow.