

DCS-SYRUP - PRODUCT APPLICATION SHEET



Product Description

A dark brown syrupy liquid with similar consistency to runny honey, having a pleasant fermented odour and slightly bitter taste. The product is the liquid fraction that remains after grains (principally wheat) have been fermented in the process of producing bioethanol in combination with yeasts and enzymes. It is very high in metabolisable energy and a good source of available crude protein due to high carbohydrate and fat contents and low fibre. The product is declared as GMO Free as per FSANZ standards. It is manufactured by the Manildra Group at their gluten, wheat starch, glucose, ethanol production facility situated in Nowra, NSW, Australia.

Protein and Energy

The protein level in this product is 20-21 percent which sets it apart from other liquid carbohydrate sources. The protein is virtually 100 percent available to ruminant animals. The product is extremely high in carbohydrates, which are derived as combination of crude fat at around 7-8 percent, and non-fibre carbohydrates at around 70 percent. The non-fibre carbohydrates level is not too dissimilar to wheat and corn, but unlike grains which are predominantly starch with a little sugar, this product contains about 16 percent starch, 16 percent sugars and about 38 percent fermentation acids, mainly lactic acid.

Product Features/ Unique Benefits

- Originates from Australian origin GMO free grains, principally wheat benefits

- Pleasant fermented odour and acidic taste are desirable to ruminants, although some herds may need a little encouragement initially, as is the case with most feed changes.

- An extremely price effective form of energy and protein that has been known to deliver an excellent production response.

Product requires no heating and has excellent handling properties. Should some dilution be required the product is cold water soluble.

Product blends readily with other liquid feed products such as molasses.

Product available nationwide for delivery in road tankers or 1000 litre IBC's.

- Good long term supply from the manufacturer due to increasing production of ethanol for fuel to meet the mandated inclusion levels in fuel in the state of New South Wales Australia

Feeding Levels

- Will deliver a good production response, but due to the presence of lactic acid in particular, the product needs to be introduced slowly to allow the rumen micro flora to adapt and the population of lactate utilisers to grow so that they can convert

lactate to propionate glucose / energy, resulting in increased milk and butterfat yields.

- Stick to sensible maximum daily intakes. Most dairy farmers will commence feeding a ration of between 1.5 to 2 litres per day. While it is hard to state a maximum level of inclusion to reach and maintain, due to the peculiarities of each individual situation, once adapted it is possible to feed up to 5-6 litres per day where the product can be used to replace grain.

Feeding Method Suitable for feeding

- 1) direct into dairy
- 2) add lib into troughs located in resting paddock
- 3) TMRs

Storage

The product has excellent on-farm storage properties when stored in watertight tanks or other vessels. The product is cold water soluble, so best kept out of the weather.

Typical Analysis (DM Basis)

Dry Matter	42%
Crude Protein	20 - 21%
Crude Fat	7 - 8%
Non Fibre Carbohydrate	70%
Neutral Detergent Fibre	≤ 1
Metabolisable Energy	15.5 - 16.5 mj/ kgm



Feeding DCS-Syrup to livestock

Option 1: Feed via TMR. DCS-Syrup is added to mixer wagon through spray bar.



Option 2: Direct feed to Dairy.



Option 3: Open tank or trough in paddock.

