



# COMMODITY NUTRIENT PROFILE

## DRIED DISTILLERS GRAINS – Ethanol

### DESCRIPTION

Corn Distillers Dried Grains with Solubles (DDGs) is the feed product obtained after distillation of the ethyl alcohol from the yeast fermentation of corn. The coarse grain fraction of the whole stillage is separated by centrifugation and dried by methods employed in the grain distilling industry to the specifications listed below. The feed is rich in cereal and residual yeast proteins, energy, minerals, vitamins and growth factors. The product is moderately coarse, friable, and a golden to brownish colour. Fermentation of the starch, which is about 2/3 of the weight of cereal grains, results in a threefold concentration of non-starches such as proteins, fats, mineral and vitamins in the residual mash. In addition to these nutrients, protein, vitamins and growth factors are further synthesized by the growing yeast cells during the fermentative process.

### USE AND APPLICATION

Corn DDGs are an excellent protein and energy source for all ruminants, and can readily comprise 20-30% of the total ration dry matter. In the rumen, Digestible Intake Proteins (DIP) are degraded by microbes, while the Undegradable Intake Protein (UIP) remains intact and "by-passes", becoming available for digestion and absorption in the lower tract. Protein in Corn DDGs is a natural protein and recognized as a feedstuff with one of the higher proportions of by-pass protein. Corn DDGs are also an excellent source of energy and other essential nutrients. Like all feedstuffs, Corn DDGs should be properly incorporated into a ration.

### STORAGE AND HANDLING

Corn DDGs are handled in a manner similar to other dry feed bulk commodities; namely stored in free-flowing overhead bins, or some form of sheltered flat storage. The product flows easily or can be conveyed from bins, and can also be handled by usual front-end loader technique. Corn DDGs can be combined into a total mixed ration or top dressed and fed accordingly.



### TYPICAL ANALYSIS

	DMB	As Fed
Dry Matter	100.0%	89.6%
Crude Protein	29.4%	26.4%
Fat	8.0%	7.2%
Crude Fiber	8.3%	7.5%
ADF	14.5%	13.0%
NDF	34.5%	30.9%
Ash	5.2%	4.7%
TDN	83.3%	74.6%
NE <sub>L</sub>	1.92 Mcal/kg	1.72 Mcal/kg
NE <sub>m</sub>	1.99 Mcal/kg	1.78 Mcal/kg
NE <sub>g</sub>	1.33 Mcal/kg	1.19 Mcal/kg
DE (swine)	3.67 Mcal/kg	3.28 Mcal/kg

\* Listed data are average values only and not considered as guarantees, expressed, or implied, nor as a condition of sale. For guaranteed specifications refer to feed label.



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