



DRIED DISTILLERS GRAINS WITH SOLUBLES

DESCRIPTION:

Dried Distillers Grains with Solubles is the product obtained by condensing and drying the stillage remaining after the removal of alcohol by distillation from a yeast fermentation of corn. The coarse fibrous material is separated from the soluble and finely suspended portion by screening or centrifuging. The liquid fraction is concentrated by evaporation to a syrup which is combined with the coarse fibrous fraction and dried in heated air dryers. The feed is rich in cereal and residual yeast proteins, energy, minerals, vitamins and growth factors. Fermentation of the starch results in a three-fold concentration of nonstarches such as proteins, fats, minerals and vitamins. In addition protein, vitamins and growth factors are synthesized by the growing yeast cells during the fermentation process and are included in the Dried Distillers Grains with Solubles.

TYPICAL ANALYSIS *Slight variation may occur.

DDGS	D. M.	As Fed		D. M.	As Fed
Dry Matter (%)	100.0	88.8	TDN (%)	84.4	74.9
Crude Protein (%)	31.3	27.8	Fat (%)	11.6	10.03
NEL (Mcal/lb)	.89	.79	Phosphorus (%)	.78	.69
NEM (Mcal/lb)	.95	.84	Calcium (%)	.036	.032
NEG (Mcal/lb)	.64	.57	Crude Fiber (%)	7.85	6.97

STORAGE AND HANDLING:

Dried Distillers Grains with Solubles 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 and can be conveyed from bins or handled by the usual front end loader technique. Dried Distillers Grains can either be combined into a total mixed ration or top dressed and fed accordingly.

USE AND APPLICATION:

Dried Distillers Grains with Solubles is an excellent protein and energy source for all ruminants and can readily comprise 20-30% of the ration dry matter. It is a medium protein feed with about the same energy value as ground corn. The protein in Distillers Dried Grains is a natural protein and recognized as a feedstuff with one of the highest proportions of digestible insoluble protein. It is a very palatable feed and is safe to feed in large quantities. It may be included in the grain mix at high levels.

MODIFIED DRIED DISTILLERS GRAINS WITH SOLUBLES

TYPICAL ANALYSIS *Slight variation may occur.

MDDGS	D.M.	As Fed		D.M.	As Fed
Dry Matter (%)	100.0	48.7	TDN (%)	86.5	42.1
Crude Protein (%)	27.0	13.1	Fat (%)	15.7	7.65
NEL (Mcal/lb)	.91	.44	Phosphorus (%)	1.19	.579
NEM (Mcal/lb)	.97	.47	Calcium (%)	.0413	.0201
NEG (Mcal/lb)	.66	.32	Crude Fiber (%)	5.09	2.48

STORAGE AND HANDLING:

MDDGS should be stored in a cool, sheltered location.

USE AND APPLICATION:

On a dry matter basis, Modified Dried Distillers Grains with Solubles and Dried Distillers Grains with Solubles are essentially the same. The main difference for the user is handling and cost. If handled correctly, Modified Dried Distillers Grains with Solubles will generally result in a cost savings to the user. As always, feed rations should be balanced by a professional nutritionist.

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