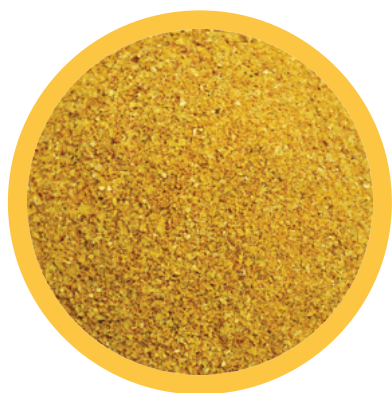




# US EXPORT-IMPORT CORPORATION



## DISTILLERS DRIED GRAINS WITH SOLUBLES

US Export-Import Corporation supplying bulk DDGS (Dried Distiller Grain with Solubles) to livestock producers and millers. DDGS has become an important ingredient in livestock rations as it provides a high-quality and economical alternative to corn and soyabean meal for all classes of livestock. Using DDGS can improve the availability of nutrients to the animal while often reducing the cost of the diet. Our goal is to produce a consistent, quality product that customers will want in their feed ration.

## WHAT IS DISTILLERS DRIED GRAINS WITH SOLUBLES?

During the ethanol production process, as alcohol is distilled and removed, remaining solid matter is separated out and dried, creating Distillers Dried Grains with Solubles (DDGS).

DDGS is rich in cereal proteins, fat (energy), minerals and vitamins, providing an excellent source of nutrition.

## HOW CAN DDGS BE USED IN LIVESTOCK FEEDS?

With high-quality, ingredient-rich nutrients, DDGS provides a healthy way to supplement livestock rations. DDGS can act as a substitute for a portion of the energy and protein needed in diets, traditionally provided by corn and soybean meal.

## NUTRIENT COMPARISON OF INGREDIENTS

Typical as-fed values:

Ingredient	Moisture (%)	Crude Protein	ADF (%)	NDF (%)	Total Tract Digestibility (%)
DDGS	11.6	28.6	12.4	30.9	85.3
Corn bran + solubles	10.0	16.7	11.5	38.0	86.1

## TYPICAL NUTRIENT CONTENT OF DDGS

All values presented on dry matter basis:

Dry Matter	100%
Crude Protein	32.1%
Crude Fat	7.1%
Crude Fiber	9.3%
Ash	4.9%
Total Digestible Nutrients	83.2%
Net Energy Lactation	0.9Mcal/lb
Net Energy Maintenance	0.9Mcal/lb
Net Energy Gain	0.6Mcal/lb
Digestible Energy	1.7Mcal/lb
Metabolizable Energy	1.5Mcal/lb
Total Starch	2.8%
Phosphorus	1.0%
Calcium	<0.1%
Vomitoxin	<5.0ppm
Fumonisin B1	2.2ppm
Fumonisin B2	0.6ppm
Fumonisin B3	n.d.
Fumonisin Summation	2.8ppm
Zearalenone	421.5ppb

## AMINO ACID PROFILE

Alanine	2.5%
Arginine	1.5%
Aspartic Acid	2.4%
Cystine	0.6%
Glutamic Acid	6.1%
Glycine	1.3%
Histidine	0.9%
Isoleucine	1.1%
Leucine	3.9%
Lysine	1.0%
Methionine	0.7%
Phenylalanine	1.6%
Proline	2.8%
Serine	1.8%
Threonine	1.1%
Tryptophan	0.2%
Tyrosine	1.3%
Valine	1.4%

### Quantity

Metric ton- Plus / minus (10%) Ten percents at contract price at seller options

### Packing

Bulk in 20'/40' std and 40' high cube containers at seller options