

**CHATHAM PLANT**

**Condensed Corn Distillers' Solubles (syrup)**

**DESCRIPTION:**

Condensed Corn Distillers' Solubles (CDS) is a co-product of corn starch fermentation during ethanol production. Because of its high-energy content, natural protein and palatability, CDS can be used in a variety of different feeding programs. This product is fluid at a wide range of temperatures for use in lick tanks and mixes well in TMR feeding along with silage or other dry feedstuffs. CDS is also rich in minerals such as phosphorous and potassium.

**TYPICAL RESULTS:** (Dry matter basis)

|                          |      |
|--------------------------|------|
| Dry Matter, %            | 33.6 |
| Crude Protein, %         | 21.1 |
| Crude Protein, % (as is) | 7.1  |
| Soluble Crude Protein, % | 6.9  |
| Crude Fibre, %           | 1.5  |
| Crude Fibre, % (as is)   | 0.4  |
| Fat, %                   | 18.4 |
| Fat, % (as is)           | 5.7  |
| Calcium, %               | 0.04 |
| Phosphorous, %           | 1.4  |
| Magnesium, %             | 0.6  |
| Potassium, %             | 1.9  |

|   |      |
|---|------|
| Sodium, %                                       | 0.12 |
| Sulphur, %                                      | 1.38 |
| Iron, ppm                                       | 91   |
| Zinc, ppm                                       | 93   |
| Copper, ppm                                     | 4    |
| Manganese, ppm                                  | 24   |
| Starch, %                                       | 4.6  |
| Simple Sugars, %, Ethanol Soluble Carbohydrates | 12.1 |
| Ash, %  | 7.4  |
| Lysine, %                                       | 1.6  |
| Available Lysine, %                             | 1.44 |

Consultation with your nutritionist is recommended to insure a proper balance of nutrients in the animal's ration

**STORAGE AND HANDLING:**

Condensed Distillers' Solubles can be stored in vertical or horizontal tanks (minimum 6,000 gallons) or in ground cement pits. CDS is delivered in 40,000 litre tanker units (product temperature 65-75 degrees C) and pumped or gravity unloaded at farms or feed mills. Condensed Distillers' Solubles storage tanks should be insulated to maintain flow ability or blended with other liquids (i.e. whey).

**USE AND APPLICATION:**

Condensed Distillers' Solubles is an excellent all natural protein and energy source. Typical usage rates for ruminants are 2 to 5 pounds per head per day, which can help improve palatability and animal performance. For swine, typical usage is 10 to 15 % (dry matter basis) for starters and finishers. Condensed Distillers' Solubles has also been used to seal haylage, corn silage, barlage, and high moisture corn bunk silos. Please contact your GreenField Ethanol representative for options.