

Cleardex® 28/42 Corn Syrup

Product Information

Cargill's Cleardex® 28/42 Corn Syrup is a pure, low D.E. acid-enzyme converted corn syrup. Its low dextrose content yields minimal sweetness and low hygroscopicity, making it ideal for spray drying, coating, and bulking applications. It contributes nutritive solids, body, mouthfeel, and crystallization control in many applications such as dairy, ice cream, and meats.

REPRESENTATIVE CHEMICAL AND PHYSICAL DATA

Chemical and Physical Properties

Dextrose Equivalent (DE)	26 – 30
Baumé, Comm (140°/60°+1)	41.7 – 42.3
Refractive Index (45°C)	1.4876 – 1.4909
Total Solids (%)	77.4 – 78.6
Moisture (%)	21.4 – 22.6
Sulfated Ash (%)	0.4 max
Protein (%)	0.05
pH (1:1)	4.5 – 5.3
Sulfur Dioxide (ppm)	40 max
Conductivity (30% DS)	1000 micromhos
Calories/100g	311

Typical Carbohydrate Profile

(% Dry Basis)

Dextrose	8
Maltose	9
Maltotriose	12
Higher Saccharides	71

Microbiological Limits

Mesophilic Bacteria	1,000 cfu/10g max
Yeast	100 cfu/10g max
Mold	100 cfu/10g max

Sensory Characteristics

Appearance	Clear Liquid
Taste	Sweet, Bland
Odor	Characteristic

Density and Viscosity Factors

Temp (°F)	Specific Gravity (Temp°F/60°F)	Pounds/Gallon (Temp°F)	Pounds/Gallon (DSB)	Viscosity (cP)
80	1.4127	11.78	9.19	160,000
90	1.4096	11.75	9.17	82,000
100	1.4064	11.73	9.15	40,000
110	1.4031	11.70	9.12	23,000
120	1.3998	11.67	9.10	13,000
140	1.3930	11.61	9.06	5,000

Regulatory/Labeling Data

United States	
GRAS Affirmation Labeling	CFR 21 184.1865 Corn Syrup

Canada	
FDR Labeling	B.18.016 Glucose Syrup; Glucose (contains sulphites)

Shelf Life and Storage

The recommended storage temperature range for Cleardex® 28/42 Corn Syrup is 110 - 130°F. Syrups stored for extended periods (over 6 months) should be evaluated periodically for fitness of use.

contact

Sweeteners Regional Offices

2173 Embassy Drive Lancaster, PA 17603 Tel: 800-734-8215 Fax: 717-431-3120	400 E. Diehl Road, Suite 330 Naperville, IL 60563 Tel: 800-344-1633 Fax: 630-505-7846
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Cleardex[®] 28/42 Corn Syrup

Nutritional Information

Nutritional Profile

The following typical information may be of use in answering questions regarding ingredients in corn sweeteners. Unless specified otherwise, all values are reported on a commercial or "as is" basis.

Nutrient	Amount	Nutrient	Amount
Calories	311 cal/100 g	Cadmium	< 0.05 mg/100 g
Moisture	22.0 g/100 g	Caffeine	< 0.50 mg/100 g
Protein	0.05 g/100 g	Calcium	< 10 mg/100 g
Ash	0.30 g/100 g	Chloride	< 150 mg/100 g
Total Carbohydrate	77.7 g/100 g	Chromium	< 0.05 mg/100 g
Simple Sugar* (DSB**)	17.0 g/100 g	Copper	< 0.10 mg/100 g
Total Fat	< 0.10 g/100 g	Fluoride	< 0.10 mg/100 g
Dietary Fiber	< 0.10 g/100 g	Iron	< 0.30 mg/100 g
Cholesterol	< 0.10 mg/100 g	Lead	< 0.01 mg/100 g
Trans Fatty Acid	< 0.10 g/100 g	Magnesium	< 5.0 mg/100 g
Biotin	< 0.01 mg/100 g	Manganese	< 0.05 mg/100 g
Niacin	< 0.05 mg/100 g	Mercury	< 0.05 mg/100 g
Pantothenic Acid	< 0.30 mg/100 g	Molybdenum	< 0.10 mg/100 g
Riboflavin	< 0.01 mg/100 g	Phosphorus	< 0.01 mg/100 g
Thiamin	< 0.05 mg/100 g	Potassium	< 0.10 mg/100 g
Vitamin A	< 15 IU/100 g	Selenium	< 0.10 mg/100 g
Vitamin B ₆	< 0.05 mg/100 g	Sodium	< 100 mg/100 g
Vitamin B ₁₂	< 0.30 mg/100 g	Sulfur Dioxide	< 4.0 mg/100 g
Vitamin C	< 0.05 mg/100 g	Zinc	< 1.0 mg/100 g
Arsenic	< 0.10 mg/100 g		

* DP₁ + DP₂

** Dry Solids Basis

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