



CHALLENGE DAIRY PRODUCTS, INC.

P.O. BOX 2369 • 11875 DUBLIN BLVD. • SUITE B230 DUBLIN • CALIFORNIA 94568 • PHONE (925)828-6165 • www.challengedairy.com

TECHNICAL DATA SHEET EXTRA GRADE HIGH HEAT NONFAT DRY MILK

DESCRIPTION

Spray dried Extra Grade High Heat Nonfat Dry Milk is obtained from the removal of the fat and water from fresh milk and which has been subjected to a high heat treatment. It contains the lactose, milk proteins and milk minerals in the same relative proportions as they occur in fresh milk. The product is made from fresh, pasteurized nonfat milk to which no preservatives, alkali, neutralizing agent or other chemical has been added.

PRODUCT APPLICATIONS & FUNCTIONALITY

The high water absorption properties of Extra Grade High Heat Nonfat Dry Milk are beneficial for use in bakery products, meat products, frozen desserts and prepared mixes. It also increases the nutritive value of the end product and improves flavor and keeping qualities.

INGREDIENT STATEMENT

"Nonfat Milk"

TYPICAL ANALYSIS

Protein (N x6.38)	34.0%
Lactose	51.0%
Fat	0.8% (1.5% Maximum)
Moisture	3.4% (5.0% Maximum)
Ash	8.0%
WPN	1.5 mg/g Maximum

MICROBIOLOGICAL ANALYSIS

Standard Plate Count	10,000/g Maximum
Coliform	10/g Maximum
Salmonella	Negative
Antibiotic Residue	Negative

OTHER CHARACTERISTICS

Scorched Particle Content	15.0 mg Maximum
Solubility Index	2.0 ml Maximum
Titratable Acidity	0.15% Maximum
Color	White to light cream
Flavor	Clean, cooked flavor
Odor	Fresh, no off odor

STORAGE AND SHIPPING

Product should be stored and shipped in a cool, dry environment with temperatures below 80°F and relative humidities below 65%. Product shelf life is one year from manufacturing date.

PACKAGING

Multiwall kraft bags with polyethylene inner liner or other approved closed container, i.e., "tote bag", etc.

1/23/2009

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NUTRIENT INFORMATION

PRODUCT: NONFAT DRY MILK

The nutrients found in 100 grams of product are as follows:

Protein (N x6.38)	34 g
Lactose	51 g
Fat	0.8 g (1.5 g Maximum)
Moisture	3.4 g (5.0g Maximum)
Ash	8.0 g
Calories (Kcal)	359
Calories from fat (Kcal)	7

Minerals

Calcium	1248 mg
Iron	0.4 mg
Magnesium	110 mg
Phosphorus	993 mg
Potassium	1674 mg
Sodium	494 mg
Zinc	4.08 mg

Vitamins

Vitamin C	8.0 mg
Thiamine	0.415 mg
Riboflavin	1.8 mg
Niacin	0.951 mg
Pantothenic Acid	3.568 mg
Vitamin B6	0.361 mg
Folacin	50 mcg
Vitamin B12	4.033 mcg
Vitamin A	30 IU/6 RE

Lipids

Fatty Acids:	
Saturated	0.49 g
Monounsaturated	0.26 g
Polyunsaturated	0.03 g
Trans fat	0.02 g
Cholesterol	25 mg

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