



# 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 LOW HEAT NONFAT DRY MILK

### DESCRIPTION

Spray dried Grade A Low Heat Nonfat Dry Milk is obtained from the removal of the fat and water from fresh Grade A Milk and which has been subjected to a low heat treatment. It contains the lactose, milk protein 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 preservative, alkali, neutralizing agent or other chemical has been added.

### PRODUCT APPLICATIONS & FUNCTIONALITY

Fluid milk fortification, frozen desserts, cheese, yogurt, dairy beverages, custards, gravies, sauces, frozen foods, packaged dry mixes, soups, infant formulas, snack foods, cosmetics. Grade A Low Heat Nonfat Dry Milk is preferred for beverage applications because of excellent flavor and solubility.

### 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	6.0 mg/g Minimum

### 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	1.2 ml Maximum
Titratable Acidity	0.15% Maximum
Color	White to light cream
Flavor	Clean, pleasing
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 bags”, etc.

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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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