

## TRANS FAT FREE PRODUCT OPTIONS

### HISTORY:

Hydrogenation is the chemical process in which hydrogen is added to oil to create a solid. Although hydrogenation extends the shelf life and flavor of products the resulting trans fat (a/k/a trans fatty acids) will increase LDL ("bad") cholesterol. (1)

The United States Food and Drug Administration has found a direct link between diets high in trans fat and LDL cholesterol. The increase in LDL cholesterol increases the risk of stroke and heart disease. (2)

### U.S. REGULATIONS:

As of January 1, 2006 the United States Food and Drug Administration (FDA) requires that all food manufacturers list trans fat content separately under Nutrition Facts. This will allow consumers to see how much trans fat is in the foods they choose. (2)

### CURRENT OIL OPTIONS:

#### SUNFLOWER OIL

Sunflower oils are low in saturated fat and high in unsaturated fat. A clean flavor profile and long shelf life make sunflower oil an excellent product base.

#### PALM OIL

Palm oil is slightly lower in saturated fat and still has zero trans fat.

#### COCONUT OIL

Coconut oil has a preferred flavor profile and contains zero trans fat.

	Fat Source	*Total Fat	**Saturated Fat	**Mono Fat	**Poly Fat	**Trans Fat	Suggested Application
<b>CREAMERS</b>							
Cocoa Riche 800	Coconut Sunflower	30%	28% 3%	2% 25%	0% 1%	0%	Hot Cocoa Mix, Foaming Milk Tea, Powdered Cappuccino
Cocoa Riche LCD	Coconut & Butterfat	23%	21%	1%	0%	0%	Powdered Cappuccino
Jerzee Blend 22007	Coconut	50%	46%	3%	1%	0%	Creamy Chicken Soup (Bunn Cappuccino Machine)
Jerzee Blend C	Coconut	50%	46%	3%	1%	0%	Iced Coffee with Creamer and Sugar, Portion Pack Creamer, Canned Coffee - Iced
Jerzee Blend GSN-II	Coconut Sunflower	47% 45%	43% 5%	3% 37%	1% 2%	0%	High Protein/Fiber Instant Shake
Jerzee CWS 80BX	Sunflower	50%	5%	42%	2%	0%	Nutritional Beverages
Jerzee CWS 80BXS	Coconut Sunflower	49%	46% 5%	3% 42%	1% 2%	0%	Soy milk, Fruit Drink Bases
Jerzee CWS-MCT	Medium Chain Triglycerides	40%	40%	0%	0%	0%	Sports Drinks, Sports Mixes
Jerzee Vend C	Coconut	34%	31%	2%	0%	0%	Health Beverage (Using Granita Machine), 3 to 1 Cappuccino Smoothie (Using Granita Machine)
Jerzee Blend C-Palm	Palm	50%	25%	18%	5%	0%	Drink Mixes

<b>POWDERED VEGETABLE SHORTENINGS</b>							
Centennial II	Palm Coconut Sunflower	73% 73% 74%	38% 68% 7%	28% 5% 62%	7% 1% 3%	0%	Buttermilk Pancake and Waffle Mix, White Cake Mix, Cheese Sauce Mix, Cheese Flavored Soup, Chocolate Pudding Mix, Biscuit Mix
Centennial IX	Coconut Sunflower	75%	69% 7%	5% 64%	1% 3%	0%	Retort Cream Soup, Clam Chowder Flavored Instant Soup Mix
Centennial I	Coconut	74%	68%	5%	1%	0%	Vanilla/Chocolate/Butterscotch Pudding Mix

<b>WHIP TOPPING BASES</b>							
DMP	Partially Hydrogenated Coconut & Palm Kernel	68%	62%	2%	0%	2%	Whip Topping, Chocolate Bavarian Mousse Mix, Instant Cheesecake
Jerzee Whip Base	Partially Hydrogenated Coconut & Palm Kernel	50%	47%	0%	0%	1%	Whip Topping

<b>SPECIALTY POWDERS</b>							
Fat Free Half & Half	Butterfat	1%	0%	0%	0%	0%	Fat Free Half & Half
Jerzee NFR-2	n/a	0%	0%	0%	0%	0%	Fat Free Hot Chocolate Mix, Fat Free Gravy Mix, Liquid No-fat Non-Dairy Creamer

\*Target Fat Range +/-2%  
\*\*Calculation Based on Target Fat

1 American Heart Association Web site, October 4, 2006  
2 United States Food and Drug Administration Web site, October 4, 2006