

# **Energy Balancer 1000**

## **ENERGY SUPPLEMENT for Dairy Cows CALCIUM SALT OF FATTY ACIDS**

**Energy Balancer 1000 is a calcium salt (or soap) of palm fatty acids. It is produced from freshly processed fatty acid distillates from palm oil reacted with calcium.**

**Energy Balancer 1000 is a rumen inert fat, meaning it is not digestible in the cow's rumen. Instead, the calcium bonds of Energy Balancer 1000 are broken down by the acid in the cow's lower gut. Energy Balancer 1000's fatty acids are easily absorbed from the intestine to provide energy for the cow.**

**Energy Balancer 1000 is a free-flowing light-brown granular material that mixes well with all common feed ingredients.**

**Today's high-producing dairy cows need energy-dense diets. Most of the cow's energy needs are supplied by digestible carbohydrates, primarily fiber and starch. But intake maximums and rumen health concerns place upper limits on ration fiber and starch. Additional dietary fats increase ration energy density. Often, fat supplementation improves body condition, lactation persistency, and conception rates. Energy Balancer 1000 is a premier fat supplement containing highly digestible fatty acids.**

An Agricultural Company  
Since 1995

### **Customer Comments**

***"Energy Balancer 1000 is lighter in color and intake is better than with traditional calcium salts manufactured in the USA."***

***"Consistency and flow ability through the mill's bins has not been a factor. Our employees would be upset if we were to switch back to our other calcium salt supplier"***

***"To our surprise, cows ate Energy Balancer 1000 as a top-dress supplement."***

## Energy Balancer 1000 Guaranteed Analysis

Fat, (as fatty acid, Min)	84.0%
Crude Protein, (Min)	0.0%
Crude Fiber, (Max)	3.0%
Calcium, (Min)	8.0%
Calcium, (Max)	10.0%

### Energy Balancer 1000 Energy Values for Dairy Cattle

	Mcal/lb.	Mcal/kg
Digestible Energy (DE) (1X)	3.10	6.83
Metabolizable Energy (ME) (3X)	2.85	6.27
Net Energy for Lactation (NEL) (3X)	2.28	5.02
Net Energy for Maintenance (NE <sub>m</sub> ) (3X)	2.28	5.02
Net Energy for Gain (NE <sub>g</sub> ) (3X)	1.57	3.45
Total Digestible Nutrients (TDN) (1X)	163.5%	

<sup>1</sup> Values from NRC (2001) for Calcium Soaps

### Typical Nutrient Analysis of Energy Balancer 1000

Energy Balancer 1000	
Dry Matter, %	95.85
Fat, %DM	85
Ash, %DM	15
Calcium, %DM	9.25
TFA, as % Fat	100
Fatty Acid Composition % of Fat	
C12:0, %DM	0.23
C14:0, %DM	1.23
C16:0, %DM	48.15
C16:1, %DM	0.16
C18:0, %DM	4.48
C18:1 T, %DM	0
C18:1 C, %DM	35.42
C18:2, %DM	7.44
C18:3, %DM	0.26
Other LCFA, %DM	2.64

<sup>1</sup> Clemson University (Dr. Tom Jenkins) fatty acid analysis. Mean of ten analyses representing over 500 ton of over a p **Energy Balancer 1000** period of time.